PT/520/1122-AS (November 2022)

Assessment Schedule for the Weholite pipe system with welded joints for gravity drainage, sewerage and flow attenuation as manufactured by SDS Pipe Systems Ltd.

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1. SCOPE

This schedule specifies the requirements for the Weholite pipe system for sewers, drains and attenuation tanks with welded joints as manufactured by SDS Pipe Systems Ltd. It is applicable to large diameter structured wall pipe made from high density polyethylene (HDPE) for gravity or low-pressure use.

It is not applicable to pipes joined using external pipe couplers or welded joints not undertaken by BFS Nationwide Ltd (SDS Pipe Systems Ltd's appointed contractor).

2. PRODUCT DESCRIPTION

2.1 Introduction

The system comprises a factory fabricated pipe made from extruded box section, automatically spirally wound and machine welded to the required pipe diameter in a diameter range between 900mm and 3500mm and in any length. Manifolds, stubs, and accesses are manually fabricated.

2.2 Relevant Standards

The following standards are applicable to this product:

- Sewerage Sector Guidance Appendix C[(1)]
- Sewers for Scotland, 4th edition[(2)]
- BS EN 752[(3)]
- BS EN 13476-1[(4)]
- BS EN 13476-2:2018+A1:2020[(5)]
- WIS 4-35-01[(6)]

Materials used shall comply with:

- BS EN 13476-2; Annex E

2.3 Approval History

The Weholite pipe system first received WRc Approved certification in October 1996. This is the fifth reapproval and this assessment schedule supersedes the previous schedules:

- PT/003/1096-AS.
- PT/175/0303-AS.
- PT/270/1007-AS.
- PT/340/1112-AS.
- PT/412/1117-AS.

3. REQUIREMENTS AND TESTING

3.1 Design

The Weholite pipe system shall be designed in accordance with:

- BS EN 1295-1[(7)]

3.2 Type Testing

The Weholite pipe system shall comply with the following test requirements:

- BS EN 13476-2; Annex G and I, and Clauses 8.1.1, 9.1.1, 9.1.2 and 9.1.3.
- WIS 4-35-01; Appendix A and C.

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3.3 Manufacture

To ensure the quality and performance of the Weholite pipe system the manufacturing process shall include appropriate systems for:

- Verification that component materials received are to specification.
- Handling and storage of all component materials and finished units.
- Records of quality control procedures and pressure tests.
- Inspection and maintenance of welding tools.
- Detailed drawings for work pieces.
- Fabrication of bespoke sections and quality of workmanship.

The production of the Weholite pipe system 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[8], the pipe system shall be reasonably expected to perform as described.

4. APPROVAL

The Weholite pipe system has been audited and successfully met all the requirements stated within this assessment schedule

Signed:

Valid until 31 October 2027

5. REFERENCES

1. Sewers design and Construction Guidance for foul and surface water sewers offered for adoption under the Code for adoption agreements for water and sewerage companies operating wholly or mainly in England ("the Code"), Approved Version 2.1, 25 May 2021.

2. Sewers for Scotland - A technical specification for the design and construction of sewerage infrastructure, Version 4.0, October 2018.

3. BS EN 752:2017 Drain and sewer systems outside buildings.

4. BS EN 13476-1:2018 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). General requirements and performance characteristics.

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5. BS EN 13476-2:2018+A1:2020 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). Specifications for pipes and fittings with smooth internal and external surface and the system, Type A.

6. Water Industry Specification WIS 4-35-01 Specification for thermoplastics structured wall pipes – supplementary test requirements, Issue 2, October 2008.

7. BS EN 1295-1:2019 Structural design of buried pipelines under various conditions of loading. General requirements.

8. Installation documentation, Issue 2, May 2006.

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