PT/549/0625 (June 2025)

Assessment Schedule for ULTRA3 Inlet Saddle as manufactured by DYKA B.V.

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1. SCOPE

This schedule specifies requirements for the ULTRA3 inlet saddle for the in-situ connection of DN125 and DN160 (OD) lateral connections to solid wall EN1401-1 PVC-U pipes, or structured wall EN13476-2 PVC-U pipes for gravity sewers, as manufacture by DYKA and distributed by JDP.

This Assessment Schedule applies to the use of the ULTRA3 inlet saddle with plastic sewer pipes of stiffness SN8 (SDR34).

2. PRODUCT DESCRIPTION

2.1 Introduction

The ULTRA3 inlet saddle enables a secure and leak tight lateral connection to be made to a larger sewer or surface water pipe without the need to fully excavate and disturb the bedding.

The body of the ULTRA3 inlet saddle comprises of inner and outer moulded-U sections. The lower section locks into the sewer pipe and the upper section is compressed into the lower section by levers to form a leak tight seal.

EPDM seals are located between the lateral connection point and the saddle and at the connection with the host pipe.

The product range is:

- 125mm outlet diameter: Pipe Range 200 – 400mm diameter
- 160mm outlet diameter: Pipe Range 250 – 630mm diameter

The ULTRA3 inlet saddle may be used for connecting laterals made of SN8 solid wall and structured wall plastic pipes.

2.2 Applicable Standards

The following standards are applicable to this product:

- BS EN 476: 2022(1)
- BS EN 13598-1:2020(2)
- BS EN 681-1:1996(3)
- WIS 4-35-01(4)

2.3 Approval History

The ULTRA3 inlet saddle was originally awarded WRc Approved™ certification in June 2020:

- PT/457/0620.

3. REQUIREMENTS AND TESTING

3.1 Type Testing

The ULTRA3 inlet saddle shall comply with the following test requirements of BS EN 476: 2022.

Materials: The ULTRA3 INLET SADDLE shall be produced from:

- Elastomeric components to BS EN 681-1:1996.
- BS EN 13598-1:2020.

Mechanical/Physical: When tested in accordance with the test methods specified in Tables 1, 2 and 6 of BS EN 13598-1:2020, the connection system shall have mechanical characteristics conforming to the requirements given in those tables.

Tolerance: The manufactured connection system shall be of sufficient tolerance to

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ensure a correct fit in a hole of the specified diameter ± 1mm.

Table 1 Mechanical characteristics of mechanical saddles assembled on pipes from BS EN 13598-1:2020 clause 8: Table 2

Type Test	Test Method	Requirement
Mechanical strength of saddle assembled to pipe	Annex B	No sign of splitting, cracking or separation

Table 2 Physical characteristics of fabricated ancillary fittings from BS EN 13598-1:2020 Clause 8: Table 5

Type Test	Test Method	Requirement
Water tightness	EN ISO 13254	No leakage

Leak tightness: When tested for tightness of elastomeric sealing ring joints, in accordance with the test methods specified in in Table 5 and 6 of BS EN 13598-1:2020, shall have leak tightness characteristics conforming to the requirements given in that table.

Table 3 Performance requirements for ancillary fittings from BS EN 13598-1:2020 Clause 10: Table 6

Type Test	Test Method	Requirement
Tightness	EN ISO 13259	As per table 6

Resistance to High Pressure Water Jetting: When tested in accordance with WIS 4-35-01, Appendix B. The high-pressure water jet is applied for 120 seconds and shall meet the minimum requirement of 180 Bar (2600 psi); there shall be no penetration through the wall of the fitting.

3.2 Product Design

The ULTRA3 inlet saddle system shall be designed in accordance with those standards quoted in section 2.2.

3.3 Manufacture

To ensure the quality and performance of the ULTRA3 inlet saddle, 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 ULTRA3 inlet saddle and
- Fabrication and quality control of workmanship.

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The production of the ULTRA3 inlet saddle 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 [4], the ULTRA3 inlet saddle shall be reasonably expected to perform as described.

4. APPROVAL

The ULTRA3 inlet saddle has been audited and successfully met all the requirements stated within this assessment schedule.

Signed:

Valid until 16th June 2030

5. REFERENCES

1. BS EN 476:2022 General requirements for components used in drains and sewers.

2. BS EN 13598-1:2020 Plastics piping systems for non-pressure underground drainage and sewerage. Unplasticized poly (vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) – Part 1: Specifications for ancillary fittings and shallow chambers

3. BS EN 681-1:1996 Elastomeric seals. Materials requirements for pipe joint seals used in water and drainage applications. Vulcanized rubber. 1996

4. WIS 4-35-01 Specification for thermoplastics structured wall pipes- Supplementary Test Requirements

5. ULTRA3 inlet saddle Installation manual

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