

CASE STUDY

FABEKUN JUNCTION FOR CONNECTION OF LATERALS TO GRAVITY SEWER PIPES

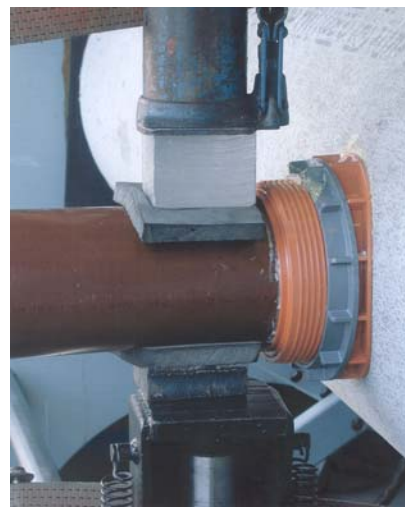
Background

FUNKE KUNSTSTOFFE GmbH produce junctions for the connection of 160mm and 200mm laterals to solid wall gravity sewer pipes in sizes DN300 to DN2325. The laterals may be made of clay and solid or structured wall plastics. Adapters are required for connecting clay and structured wall plastics laterals. FUNKE KUNSTSTOFFE GmbH operate a quality system to EN ISO 9001.

Scope of assessment

To assess the performance of the Fabekun Junction against the WRc Assessment Schedule PT/145/0901-AS. The Assessment Schedule was developed taking into account the requirements of EN 1401 (Plastics piping systems), EN 476 (Requirements for drains and sewers) and EN 295 (Clay pipe).

The aim of the assessment was to ensure that the Junction will give satisfactory performance in service. The tests were undertaken using a concrete sewer pipe which is the most common material used in the UK in this size range.



Programme

1. The on-site installation of a junction was witnessed to confirm that the installation instructions were clear and the junction could be successfully installed following the method given in the instructions.
2. A technical audit of type testing was carried out. Selected tests were witnessed to demonstrate compliance with the Assessment Schedule with regard to the leaktightness of the junction under pressure and vacuum with the laterals under deflection, distortion or shear as appropriate. The performance of the junction under vertical and shear load was also assessed.
3. Certificates of conformity from an independent test house were taken as evidence of compliance of the materials to the declared manufacturer's specification.
4. A certificate of conformity to EN ISO 9001 was accepted as evidence of a satisfactory quality system.

Results

The tests and the site trial demonstrated that the Fabekun junction complies with the requirements of the Assessment Schedule PT/145/0901-AS and a WRc Approved certificate was awarded to FUNKE KUNSTSTOFFE GmbH for the Fabekun junction in September 2001.

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