

PT/268/0807 – AS (August 2007) Assessment of ‘Wavistrong’ glass reinforced epoxy resin pipes for sewerage applications - schedule



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1. Scope

To assess the performance of the “Wavistrong” glass reinforced epoxy resin pipes for sewerage applications.

The “Wavistrong” pipes are manufactured by Future Pipe Industries BV in The Netherlands.

For sewerage applications, pipes are available in sizes 300mm – 1600mm with a pressure rating of PN10 and stiffness STIS 5000. Pipes greater than 1200mm are also available at STIS 10000. Pipes are designated as ESN (epoxy, standard, non-tensile).

This assessment schedule replaces PT/141/0701 (July 2001).

2. Assessment schedule

2.1 Technical audit of type testing against the requirements of BS 5480: 1990*.

2.2 Technical audit of impact performance.

2.3 Technical audit of production facilities, quality control and manufacture.

2.4 Review of installation instructions and methods.

3. Review of performance tests

3.1 With reference to BS 5480: 1990 the following performance tests are required:

- Pipe design limits (long-term strength)
- Ring stiffness (short and long-term)

- Impact resistance
- Leaktightness
- Strain corrosion resistance

4. Review of procedures

In addition to the performance of the pipe, the following items are checked.

Quality control, as it applies to:

- incoming materials;
- control of production.

5. Reference documents

1. BS 5480: 1990 Specification for Glass Reinforced (GRP) Pipes, Joint and Fittings for use for water supply or sewerage.
2. EN 14364: 2006 Plastic piping systems for drainage and sewerage with or without pressure. Glass reinforced thermosetting plastics (GRP) based on unsaturated polyester resin (UP). Specifications for pipes, fittings and joints
3. EN 1796: 2006 Plastics piping systems for water supply with or without pressure. Glass-reinforced thermosetting plastics (GRP) based on unsaturated polyester resin (UP)

Note (August 2007): Testing of this product was carried out against BS 5480: 1990 and additionally impact resistance. Products are now manufactured to EN 14364 and EN 1796.