

Precast Concrete Pipes and Fittings With Flexible Joints – Data Sheet

Purpose of use: For the conveyance of sewerage, rainwater and surface water under gravity or occasional low head of pressure, in pipelines that are generally buried.

Manufactured to: BS EN 1916 and BS 5911-1.

Certification of products: 'CE Marked' and 'Kitemarked' products as applicable.

Product strength class: Pipes with circular bore: Class 120
Pipes with ovoid bore: Class 150

Jointing: Seals conforming to EN 681-1.

Water/cement ratio of concrete: Not greater than 0.45.

Chloride content of concrete: Not exceeding 1.0% (unreinforced products), or 0.4% (reinforced).

Water absorption of concrete: Not exceeding 6% by mass.

Finish: Functional surfaces of joint profiles shall be free from irregularities that would preclude a durable watertight assembly. Other areas of the products are checked for surface evenness and surface voids.

Durability of joints: As per 'Method 1' of BS EN 1916.

Durability of product: Concrete mix to DC-4 of BRE Special Digest 1:2005.

Concrete strength: Not less than 40 Mpa (N/mm²).

Water-tightness: Products with wall thickness of 125mm or less are routinely tested to an internal hydrostatic pressure of 50 kPa (0.5 bar or approximately 5 metre water column) for 15 minutes.

Tolerances: Internal bore : range of +/-5mm to +/-15mm dependent on nominal size.
Internal effective length : +/-4% of nominal length.

Minimum concrete cover to reinforcement (when units are reinforced): 25mm nom (15mm min).

Products with installed lifting anchorage: Routine pull-out test.

Marshalls Civils & Drainage