

the tests will be conducted at 23 +/-2°C ambient temperature except for strain corrosion & long term failure pressure which will be tested at 40°C +/- 2°C. Table 18-4 – GRP Type Tests (Long Term Tests for a minimum of 10,000 hrs)

**Table 18-4:: GRP Type of Tests (Long Term Tests for a minimum of 10,000 hrs)**

Property	Test method to BS/EN/14364
Long term specific stiffness and creep factor under wet and deflected condition.(min 18 samples)	ISO 10468, ISO 14828, ISO 10471, DIN 53769 the test results shall be extrapolated to 60 years. Section 5.2.2 of BS/EN/DIN 14364 shall be governing.
Long term resistance to strain corrosion .(min 18 samples)	ASTM D3681, DIN 53769, DIN EN 1120, the test results to be extrapolated to 60 years. Section 5.2.8 of BS/EN/DIN 14364 shall be governing. However, the 95% lower confidence limit failure strain must not be less than 0.85%,
Long term failure pressure.(min 18 samples)	ASTM D2992, DIN EN 1447, DIN 53769-2 the test results shall be extrapolated to 60 years Section 5.2.7 of BS/EN/DIN 14364 shall be governing.

#### **18.2.4 Product Warranty**

- A. A corporate product warranty shall be provided by the Manufacturer for intended use/application of the product for a period of 60 years from the date of the Final Acceptance Certificate of the project issued by the Client.

### **18.3 Part 3 Execution**

#### **18.3.1 Pipe Installation**

- A. Trench excavation shall be carried out in accordance with Section 02225 of the specification.
- B. Install pipe, fittings, and accessories in accordance with BS 8010, EN 1610 and manufacturer's instructions.