

ii. Ensure that records of all tests and inspections are maintained by the manufacturer.

iii. Provide the Engineer with two copies of all test certificates and reports.

b) Raw Material Inspection.

i. Inspect all raw materials to ensure that they comply with the relevant standard.

ii. Check all deliveries of resin for consistency by viscosity and reactivity. Do not use any resins deviating from the manufacturer's published figures.

iii. Check all deliveries of sand and aggregates for grading, moisture content and purity.

iv. All resin type may be tested for quality and authenticity in external laboratories as and when deemed fit by the Engineer.

c) Hydraulic Test as per relevant manufacturing & testing standard

For Filament wound GRP pipes.

a) Perform an internal hydraulic pressure test for every pipe at the manufacturer's works prior to delivery.

b) Apply 1.5 times the pipe design pressure or surge pressure, whichever is greater for all pressure pipes. Apply the test pressure for a minimum period of 5 minutes without signs of leakage.

c) In addition to the above:

i. Maintain at test pressure the first pipe and thereafter every 360 meter of pressure pipe of each diameter produced for a minimum of 4 hours without signs of leakage.

ii. Perform an internal low pressure air test for every pipe fitting at the manufacturer's works prior to delivery. Apply a test pressure of 0.1 bars for a minimum period of 5 minutes without signs of leakage or distress. Manufacture fittings which are of mitred construction from pipe which has successfully passed the tests defined above.

iii. Follow section (k) ,given below for Rejections

For Centrifugally cast GRP pipes