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WBS TEST & ACCEPTANCE CRITERIA PD.

Issue No: 2
Date of issue: January 1990

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TEST CODE SHEET

1. **TYPE OF TEST(S)**

Porosity

2. **BYELAW REQUIREMENT FOR FITTINGS**

Byelaw 52

Every water fitting shall be constructed of materials which will prevent, so far as is reasonably practicable, damage from

(c) internal water pressure

Byelaw 53

Every water fitting which -

(a) is installed below ground; or

(e) is in any other position which is inaccessible, or to which access is difficult; shall be -

(i) constructed to withstand without bursting, buckling, fracture or leaking an internal; hydraulic pressure twice that to which it would normally be subject

3. **BRITISH STANDARDS OR WATER SPECIFICATION, DEEMED TO SATISFY BYELAW REQUIREMENTS**

(See Water Supply Byelaws Guide)

BS 4127 Part 2 Clause 10.

3.1 Fittings with 'kitemarks' which are deemed to satisfy the requirements of byelaws are listed in the directory.

4. **TEST PROCEDURE**

Note Unless stated otherwise the temperature of the test fluid shall be $20 \pm 10^{\circ}\text{C}$.

4.1 Tests applicable to the following fittings:

TUBES - stainless steel

(A) **NON-BS FITTINGS**

TEST METHOD

A hydraulic pressure of twice the claimed maximum operating pressure rating, shall be applied to fittings claimed to be suitable for use in all locations, including below ground and inaccessible positions.

This pressure shall be applied with water at ambient temperature for a period of 15 minutes \pm 30 seconds.

Any reduced test pressure for fittings for restricted application shall be not less than 1.5 times the claimed maximum operating pressure rating.

5. **ACCEPTANCE CRITERIA**

There shall be no visible indication of leakage due to porosity, or any permanent increase in diameter at any point during the above test.

All fittings shall be capable of being identified for particular applications by suitable marking under TCS 6001.1.

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(B) BS FITTINGS

TEST METHOD

As detailed in extracts from the relevant BS given below.

BS2871: Part 2 Light gauge stainless steel tubes

Clause 10 Hydraulic testsatisfy that each tube will withstand the minimum test pressure given below without signs of weeping, leakage or permanent increase in diameter at any point by means of a hydraulic test.

Hydraulic test at a gauge pressure of 35 bar minimum.

(WBS - this test shall be with water at ambient temperature, for a duration of 15 minutes \pm 30 seconds).

5. ACCEPTANCE CRITERIA

In accordance with the requirements of the British Standard, there shall be no visible indication of leakage due to porosity.

All fittings shall be capable of being identified for particular applications by suitable marking under TCS 6001.1.