

Test Code Sheet Number	1	3	1	4	13
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WBS TEST & ACCEPTANCE CRITERIA PD.

Issue No: 1
Date of issue: August 1994

Sheet 1 of 2

TEST CODE SHEET

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

Tension - (Resistance to pull-out of assembled joints - single pull).

2. **BYELAW REQUIREMENT FOR FITTINGS** (See application list below)

Byelaw 52

Every water fitting shall be constructed of materials, the nature, the strength and thickness of which..... will prevent, so far as is reasonably practicable, damage from - (a) any external load; (b).....stress.....

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

(See Water Supply Byelaw Guide)

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

4. **TEST PROCEDURE**

4.1 Tests applicable to the following fittings:-

FITTINGS FOR USE WITH POLYVINYL CHLORIDE (PVC-C) - above ground
-associated fittings, metal or plastics for use with polyvinyl chloride (PVC-C) pipes intended for conveying hot and cold water for domestic purposes, including heating.

(A) **FITTINGS FOR USE WITH POLYVINYL CHLORIDE (PVC-C) - ABOVE GROUND**

(Derived from BS 7291: Part 4: Section 3, 10.2, Appendix B).

TEST METHOD

The test specimen shall consist of the fitting or fittings to be tested, assembled with one or more pieces of PVC-C pipe of the size and quality for which the fitting is designed. Each piece of pipe shall be at least 100mm in length. Assembly of the fittings shall be in accordance with the manufacturers assembly instructions.

Mount the test specimens securely to the tensile test apparatus in accordance with setting-up procedure IGN 1-50-72. Select from Table 1 the appropriate test force for the fitting under test.

Test Code Sheet Number	1	3	1	4	13
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Sheet 2 of 2

Nominal size	Force
mm	N
12	595
16	940
20	1265
25	1970
32	3230
40	5000
50	7800
63	12400

Table 1.

Apply the tensile force gradually over a period of 30 seconds. Hold the specimen in constant tension for a period of 60 mins + 30 secs, -0 secs and at a temperature of $20 \pm 3^{\circ}\text{C}$.

After removal, examine the specimen for pull-out from the compression ring and/or fracture/tearing of the pipe. If appropriate, the, cap nut shall be removed to permit examination.

5. **ACCEPTANCE CRITERIA**

The pipe shall not fracture within the fitting or separate from the fitting during the period of the test.