Test Code					
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WRAS TEST & ACCEPTANCE CRITERIA

Issue No: 1 Date of issue: May 2012

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TEST CODE SHEET

1. <u>TYPE OF TEST(S)</u>

Tension - (Resistance to pull-out of assembled joint - single pull)

2. <u>TEST procedure</u>

<u>Note</u> The test shall be carried out at a temperature of $20 \pm 10^{\circ}$ C.

3. Tests applicable to the following fittings:-

Fittings for use with metal pipe, above & below ground where there is no current test code sheet.

Fittings for use with plastic pipe, above & below ground where there is no current test code sheet.

TEST CRITERIA FOR FITTINGS FOR USE WITH METAL PIPE, ABOVE & BELOW GROUND WHERE THERE IS NO CURRENT TCS – This is based on the current criteria for copper, lead and galvanised pipe.

Nominal pipe size (mm)	12 <16	16<20	20<25	25<32	32<40	40<50	50<63	63
Test Force (KN)	0.60	0.94	1.26	1.97	3.23	5.00	7.80	12.40

TEST CRITERIA FOR FITTINGS FOR USE WITH PLASTIC PIPE, ABOVE & BELOW GROUND WHERE THERE IS NO CURRENT TCS – This is based on the minimum requirements stated in TCS 1314.11 Table 3.

Note: Electro-fusion, solder ring and crimped fittings are exempt.

Nominal pipe size (mm)	10 <11	11<15	15<18	18<22	22<28	28<35	35
Test Force (KN)	0.38	0.470	0.705	0.870	1.190	1.960	3.020

Apply the tensile force gradually over a period of 15 - 30 seconds. Hold the specimen in constant tension for a period of 5 minutes + 30, - 0 seconds and at a temperature of 23 ± 2 °C.

Acceptance criteria

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

NOTE:

When conducting tensile tests on plastic pipes, yielding of the pipe will not constitute a failure.