PRODUCT SPECIFICATION – DURAPIPE HTA

Piping system made from synthetic material (CPVC) for the transportation of hot and cold pressurized fluids.

FIELDS OF APPLICATION

Domestic Hot Water Services and Cold Water Services (DHCWS).

SPECIFICATION

The CPVC pipes and fittings shall be qualified for use in DHCWS applications as per class 2 (according to the ISO 10508 standard) at temperatures of 70°C for 50 years, at 6bar pressure for PN16 pipes and 10bar pressure for PN25 pipes.

IDENTIFICATION - RANGE

Pipes & fittings shall be coloured brown.

Only one solvent cement (HTA RERFIX orange) shall be used.

The range of pipes for DHCWS shall be:
- PN25 from diameter 16 to 63 - series 4.
- PN16 from diameter 25 to 160 - series 6.3

Supporting of the pipe shall be done by using brackets acting as guides, by taking expansion and contraction factors into account, and by respecting the manufacturer's recommendations.

In order to enable safe connections to metallic threads (valves, water meters, etc.), the manufacturer shall offer a range of CPVC fittings with brass threaded inserts and CPVC fittings with stainless steel threaded inserts.

QUALITY – CERTIFICATIONS

The system shall come from an ISO 9001, ISO 14001 and ISO 18001 certified company.

The system's fire resistance rating according to EUROCLASSES shall be B-s1-d0 (non flammable – no smoke – no flaming drops), certified according to EN 13501-1 standard.

All components of the system (including fittings and welded joints) shall pass pressure cycling tests of 20/60 bar, at a rate of:
- 5000 cycles at 1 hertz frequency for diameters 16 to 90,
- 2500 cycles at 0.42 hertz frequency for diameters 110 to 160,
according to NF T 54-094 standard.

The pipe shall bear the product's quality certification markings, as well as the information enabling to trace its production.

In order to ensure a good level of cleanliness until installation, the pipes shall be delivered with protection caps and protected by plastic bags.

The system shall be WRAS certified for drinking water.

SOLVENT CEMENT

In order to enable a quick and reliable assembly, the joints between the system's various elements shall be performed without any abrading/dulling or priming/scouring, according to the manufacturer's recommendations.

In order to allow quick reinstatement of water services further to repair works on the system, curing times before the reinstatement of a 6 bar pressure shall be guaranteed by the manufacturer and shall vary between 1 and 2 hours, according to the ambient temperature and the pipe's diameter.

TREATMENTS FOR THE PREVENTION OF BACTERIA AND DECONTAMINATION OF SAME

In consideration of the existing development of certain bacteria in DHCWS networks, the CPVC pipes and fittings shall be able to withstand, without any alteration of their mechanical properties, preventive and curative cleaning treatments as listed in the manufacturer's recommendations and in HSE L8 & HTM04-01.

ASSISTANCE

The manufacturer or his approved representative shall be able to provide professional training courses for the implementation of his system, on site or on his own premises.

The manufacturer's or his approved representative's Technical Assistance Department shall be able to produce an execution drawing made from the general drawings supplied by the contracting company in charge of a project, or to propose solutions to address the expansion and contraction phenomena encountered on the network.

TESTING PROCEDURE

The network shall be filled with water (purge the air from high points) and kept under pressure long enough to enable visual control of all joints, and no less than 30 minutes. (For large installations, test by sections).

The testing pressure will amount to 1.5 times the maximum working pressure, with a minimum of 10bar for hot & cold water services.

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