

DUROTAN COPPER PRE-INSULATED PIPE SYSTEM SPECIFICATION

The buried distribution pipework will be a pre-insulated bonded system supplied and installed by Durotan Ltd,
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The system will be capable of operating temperatures to 144°C.
The maximum operating pressure is generally 10 Bar. This is dependent upon pipe size and can be increased for pipes with greater wall thickness.

The system is available in two insulation thicknesses, Standard (N), Plus (V1) to suit heat loss requirements.

Pipes and fittings will be brazed together on site.

The section of pipe around the welds will be insulated and protected by waterproof site joints to BS EN 489.

The pre-insulated copper pipework will be manufactured in 5 metre lengths.

Carrier pipe (straight lengths)

Material: Copper to DIN EN1057.

Thermal Insulation

Material: Polyurethane foam PUR (pentane-blown) manufactured from 3 components; polyol, isocyanate and cyclopentane.

Casing

Material: High Density Polyethylene (HDPE).

Quality: PE-HD, GM 5010 T3 or equivalent.

The three components form one complete bonded unit, thus categorised as a “bonded system”.

Fittings will be factory manufactured and pre-insulated.

Outer casing site joints will comply with BS EN 489.

The pipes will have leak detection wires within the insulation and be protected by a surveillance system in accordance with BS EN 14419.

Applications:-

- Low Temperature Hot Water Heating (LTHW)
- Medium Temperature Hot Water Heating (MTHW)
- Primary Hot Water Service
- Hot Water Service (HWS)
- Potable Cold Water Service (MCW) (CWS)
- Boosted Cold Water Service (BCWS)
- Gas
- Chilled Water (CHW)
- Condensate
- Industrial and commercial fluids