

## **DUROTAN STEEL 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 152°C.  
The maximum operating pressure is 25 Bar.

The system is available in three insulation thicknesses, Standard (1), Plus (2) or Plus Plus (3) to suit heat loss requirements.

Pipes and fittings will be welded together on site. Welders shall hold an approval certificate to BS EN 287.

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

The pre-insulated steel pipework will be manufactured in 6 and 12 metre lengths in accordance with BS EN 253.

### Carrier pipe (straight lengths)

*Material: Carbon steel with longitudinal seam weld.*

*Quality: 20≤323.9mm P235TR1 or P235TR2 as per EN 10220 / EN10217-1  
20≤323.9mm P235GH as per EN 10220 / EN10217-2*

### Thermal Insulation

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

### Casing

*Material: High Density Polyethylene (HDPE) according to the requirements of PE-EN 253.*

*Quality: PE-HD, PE-100*

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

Fittings will be factory manufactured and pre-insulated in accordance with BS EN 448.

Valves will be fully welded steel ball valves pre-insulated in accordance with BS EN 488.

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.

The system will be designed and installed generally in accordance with BS EN 13941.

Applications:-

- Low Temperature Hot Water Heating (LTHW)
- Medium Temperature Hot Water Heating (MTHW)
- Primary Hot Water Service
- Chilled Water (CHW)
- Condensate
- Industrial and commercial fluids