



Factory Insulated Fittings - reduce site time.



Insapipes Heating Hot Water - direct buried in trench.

## System Benefits

- **High Efficiency Insulation**
  - Half Thickness of mineral wool
  - More energy efficient
  - Pipe size reduction possible
- **Low Life Cycle Cost**
  - No maintenance
  - Long-term integrity
  - No wet insulation
- **Quality**
  - Factory insulated under controlled conditions
  - Qualified procedures and controlled conditions throughout manufacture.
  - No weather delays or damp insulation.
  - No reduction in quality due to site conditions or remoteness.
  - Minimum reliance on field skills.
- **Reduced Site Time and Cost**
  - Install three systems in one operation:
    - Insulation, Vapour barrier and Cladding
    - Simple assembly using standard equipment
    - No extra trades
    - Less reliance on site skills
- **Fire Resistance**
  - 2-hour fire rating to enhance safety
- **Subcontractor liaison as required for practical solutions**
  - Selection of subcontractors
  - Training through data modules
  - Training on-site
  - Site supervision
  - Assistance with commissioning
  - Completion on-time and within budget
- **High Strength Casing**
  - Needs no casing penetrations at supports or hangers
  - Self supports on casing: even 900mm pipe
  - No drop-off in efficiency



The Professional insulation system for

# Heating - Hotwater

## Applications

- Heating Hot Water
- Domestic Hot Water
- Aboveground
- Underground
- Inservice ducts & shafts
- Above ceilings

## Typical Sites

- Large buildings
- Hotels
- Public buildings
- Military Establishments
- Resort Developments
- Exhibition Halls
- Hospitals
- Universities



## Technical Data Insulation

Thermal conductivity	0.024 W/m <sup>o</sup> K
Compressive strength	320 kPa
Shear strength	205 kPa
Density	65 kg/m <sup>3</sup>
Thickness optimised at design stage minimum recommended 25mm	
Temperature range	< 130°C

## Underground System Casing Materials

High density polyethylene, one-piece extruded

## Above Ground system casing materials

- Spiral wound galvanised steel
- Spiral wound stainless steel
- Spiral wound aluminium
- Spiral wound epoxy coated steel
- High density polyethylene, one-piece extruded



## Process Pipe

Normally single or double randoms to Engineer's specification in copper or steel.

Superior system performance may allow reduced diameter and corrosion provision

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