



Underground Preinsulated System

All pipe work is factory fabricated and insulated in both unitised and custom configurations to suit project requirements.

Our manufacturing method, refined over more than 10 years, utilises the latest Cannon Afros® foam dispensing technology in a single shot process to ensure uniform continuous void free insulation material in the annular space between the conveyance pipe and its casing.

BENEFITS

- Reduce onsite labour costs
- Lower total cost of ownership
- Maximise insulation efficiency and lifespan
- High integrity vapour seal – the key to an effective insulation solution

HOST OF APPLICATIONS

Conveyance of a wide range of hot and cold liquids including:

- chilled water
- hot water
- steam
- refrigerants and other process liquids.
- As an option, a heat trace channel can be installed.





CONVEYANCE PIPE TYPES

The type of pipe selected is based on a consideration of the application and project budget. Common options include copper tube and HDPE for chilled water, steel pipe for hot water and steam, and refrigeration grade copper tube for refrigeration use. Stainless steel is also available.

CASING TYPES

High Density Polyethylene Grade 5010 Type 2 PE100 carbon black extruded tube is the recommended casing for buried service applications where compliance with British Standard 4508 Parts 3 and 4 is specified. Other commonly used casing options are PVC and Polypropylene.

FACTORY FABRICATED FITTINGS

- Carrier pipe fabrication – all welding is performed by appropriately qualified personnel and in accordance with project specifications.
- Casing fabrication – all fabricated from HDPE using an extrusion welding process.
- **Fittings include short bends in 45 and 90 degrees. Expansion bends, tees and other custom pipework as required.**



JOINT REINSTATEMENT

- Straight joint reinstatement kits comprising galvanised steel casing to 450mm, two part polyurethane mix with either a heatshrink sleeve or cold applied tape to complete the vapour seal.

INSULATION MATERIAL SPECIFICATION

Machine injected rigid polyurethane foam with the following properties:

- Density >75kg/m³
- Thermal Conductivity .023w/mk
- Water absorption .5kg/m² @23C
- Compressive strength 800KPa
- Closed Cell Content >90%

CERTIFIED QUALITY

Rigitech Rigid Foam Products have been ISO 9001:2008 quality certified for 10 years. Our highly developed manufacturing and inspection processes developed over more than a decade assure peace of mind for any project procurement decision.



For further details about this quality pipe and the full range of Rigitech products, please visit www.rigitech.com.au