

MULTIPIPE

PRE-INSULATED PIPE OVERVIEW



Easy to install



Cost-effective



Energy-saving

PRE-ins

Pre-Insulated Pipe Systems

WWW.MULTIPIPE.CO.UK

THE PERFECT SOLUTION FOR YOUR ENERGY DISTRIBUTION SYSTEM

PRE-ins

Suitable for installation in the most difficult site conditions, the lightweight and maintenance-free Terrendis pipe is available in full coil lengths of 100m.

Benefiting from its unrivalled flexibility, our pre-insulated pipes significantly reduce the need for joints, practically eliminating the risk of leakage in the buried network, saving on both installation cost and time.

Terrendis insulates a full range of superior quality PE-Xa core pipes from 25 mm up to 125 mm in a wide variety of double walled jacket pipes, ranging from 75 mm up to 225 mm.

Completed with a comprehensive range of robust couplings and accessories, all of our products are readily available from stock and can be delivered directly on site.



**For flexible, durable and sustainable underground piping networks
in commercial and residential settings**

**Serving a variety of hydronic heating, cooling, sanitary and
potable water applications**



guest houses, bungalows, housing developments

geothermal, air & ground water heat pumps

PRODUCT OVERVIEW

Superior quality, crosslinked PE-Xa core pipes (PN6 or PN10 - 95°C)

- Single, Double and Quadruple combinations available
- Colour coded flow and return identification
- Excellent abrasion and chemical resistance
- Low friction coefficient

Multilayer, microcellular, crosslinked PE-X foam insulation

- Excellent thermal insulation properties (λ 10°C - 0,036 W/mK)
- Non-ageing, constant insulation performance
- Permanent elastic shape-memory
- Water repellent closed cell structure

High grade, double walled, corrugated pipe jacket, combining maximal flexibility with outstanding mechanical protection



PRODUCT MATRIX

Unique combinations of core pipe dimensions with different insulation thicknesses.

PE-Xa carrier pipes from 25 up to 125 mm in double walled jacket pipes from 75 up to 225 mm

Designed in accordance with the European standard EN 15632 - 1 & 3

ISO 9001 certified manufacturer of pre-insulated plastic pipe systems

All pipe types and dimensions available in full 100m lengths.



Heating

(PE-Xa / SDR11 / PN6 / 95 °C)



Sanitary hot (potable) water

(PE-Xa / SDR7,4 / PN10 / 95°C)



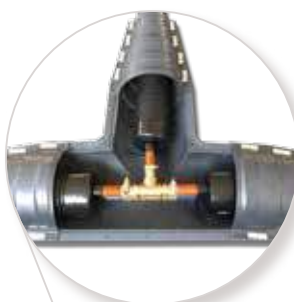
Cold (potable) water and cooling

(HDPE / SDR11 / PN16 / 25 °C)



ACCESSORIES

Broad standard pipe system offering, completed with a comprehensive range of accessories.



condominiums, dwellings, apartments

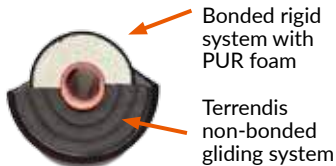
schools, universities, institutions

ADVANTAGES OF FLEXIBLE PIPE SYSTEMS

PRE-ins



Easy to install



BEST FLEXIBILITY

There exist two main types of pre-insulated pipe systems: bonded polyurethane (PUR) hard foamed systems and non-bonded PE(-X) sheet foamed systems. In bonded systems, core pipe(s), insulation and outer jacket pipe are completely glued together by the PUR hard foam, resulting in a rigid piping system.

The insulation in non-bonded systems, such as Terrendis, consists of different layers of cross-linked microcellular PE-X foam with closed cell structure, wrapped around the core pipe(s).

The different insulation layers in a non-bonded pipe system can slide independently from each other and from the core pipe(s). Also the smooth inner surface of the pipe jacket eliminates friction with the outer insulation layer. This results in a significantly improved flexibility of the pre-insulated pipe, making it much easier to install.

Mounting connectors on a non-bonded system is also very easy, where a bonded PUR system involves substantially more time and precision from the installer to properly strip the core pipe(s).



snow melting systems

biomass, biogas, CHP plants



Cost-effective

MORE THAN 60% SAVINGS IN LABOUR AND INSTALLATION COSTS

Terrendis flexible plastic pipes vs traditional rigid steel pipes

- Lightweight and very flexible, making the installation process easier and quicker
- Long coils requiring fewer underground couplings, reducing potential leak points.
- No skilled welders or special assembly tools required, neither pre-insulated bends nor expansion loops
- More than 60% savings in labour and installation cost
- No menace of corrosion reducing the longevity of the core pipes, resulting in a lower total cost of ownership



◀ Terrendis flexible pre-insulated pipe



◀ traditional rigid steel pipe



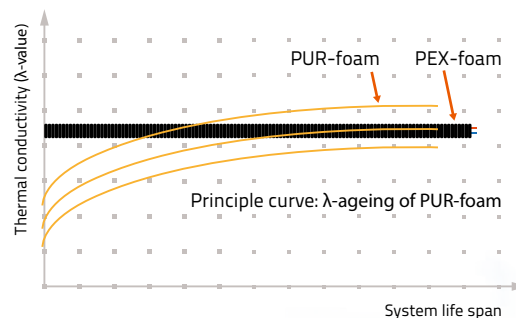
Energy-saving

CONSTANT THERMAL INSULATION PERFORMANCE

The phenomenon where PUR insulated pipe systems partially lose their initial insulating efficiency over time, through the diffusion of the volatile blowing agents, is commonly referred to as lambda-ageing.

Furthermore, both coiling and bending these pipe systems causes breakage of the PUR foam cells, also significantly impacting the system's thermal performance.

Always recovering its original volume due to its shape-memory, even after bending multiple times, the crosslinked microcellular PE-X foam provides a constant thermal insulation performance for the extended lifetime of Terrendis' pre-insulated pipe systems.



commercial buildings, shopping malls

industrial excess heat, incineration plants

AT YOUR SERVICE

PRE-ins

Plastics



People



Customisation



Sustainability

As a subsidiary of the French private industrial RYB group, a leading plastic manufacturer, Terrendis combines the required flexibility, experience and know-how to best serve its market.

- 50+ years of experience in extrusion of plastic pipes, 10+ years of know-how in pre-insulated plastic pipes and applications
- Innovative and technologically advanced partner offering unique geolocation capabilities for our pre-insulated piping solutions
- Support team for assistance in network design, product selection and system optimisation
- Availability of technical experts for on-site training and installation support
- Possibility to produce specific customized pre-insulated pipes
- Sustainable manufacture, products and solutions

We can respond to our customers' specific needs more quickly and easily, and with a sharper focus



district cooling



swimming pools, leisure parcs, holiday resorts



Terrendis + ELIOT,
a smart pre-insulated piping solution!

- Highly accurate geo-referencing up to 1,5m depth
- Unhindered by soil conditions
- Enables immediate closing of trenches
- Transfer of GPS coordinates and tag-stored information into any Geographic Information System
- Improved traceability and network control
- Advanced asset management

Unique ability to integrate ELIOT, a proprietary RFID-based Detection, 3D-location and identification system for buried assets, into your pre-insulated piping solution.



waste water, sewage

Eliot



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