



Flexibility is in our nature

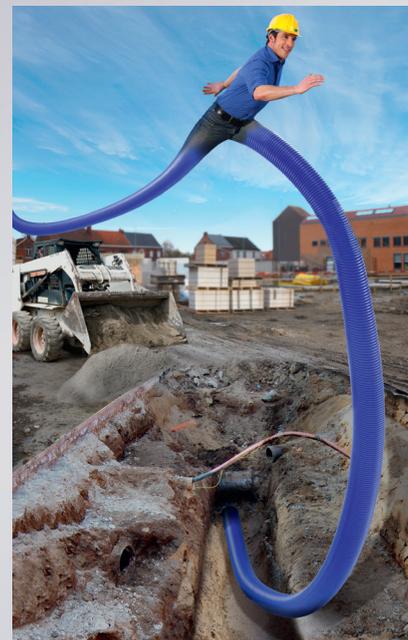
MICROFLEX[®]
Flexibility, all the way.

Flexibility is in our nature

**Supplies?
Always in stock**



**Installation?
Always more
flexible, at a
lower cost**



**Delivery? Always
on time on-site**

Microflex is recognised worldwide as the most flexible pre-insulated piping system on the market. It is ideally suited for the transportation and distribution of water in district heating, sanitary and cooling networks. The flexibility of the system gives you benefits such as shorter assembly times and lower installation costs.

The agility of our organisation, combined with our highly advanced logistics platform, has led to Microflex gaining a worldwide reputation as a fast and reliable supplier and partner.

For over 20 years, ultra-flexible pre-insulated piping has been our sole business and specialty, and our

**Outstanding
aging resistance
for a lifetime of
high insulation
performance**

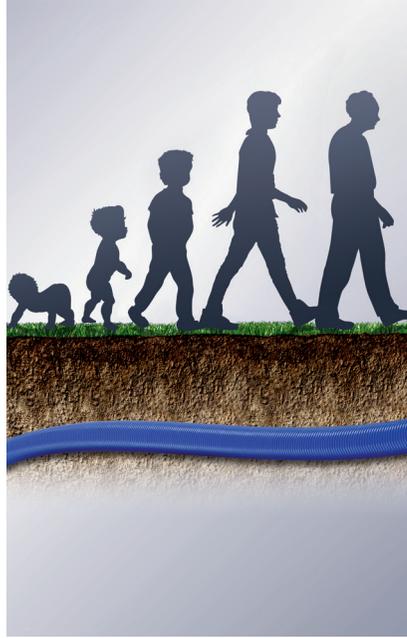


**Microflex. Saving
energy and preserving
the environment**

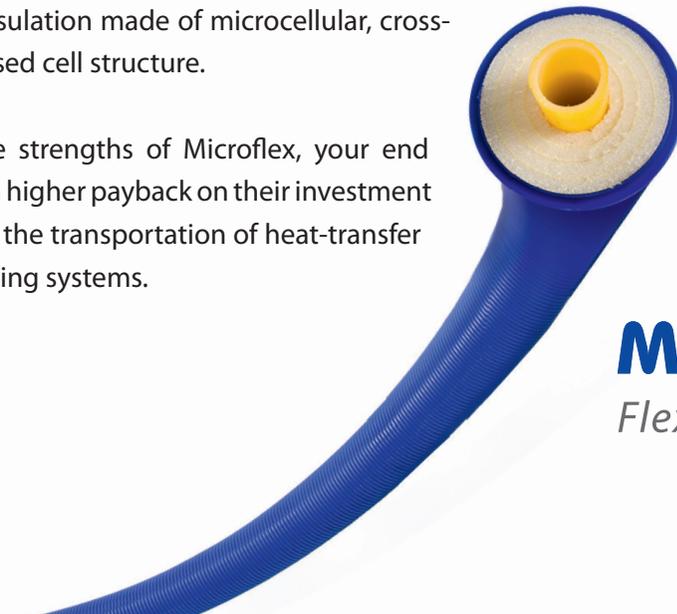
experience has made us leading experts in this field. And to stay as leader, we constantly improve and optimise our products and services.

The excellent aging resistance of the Microflex insulation material ensures a long lifetime of high insulation performance. Microflex pipes retain their optimum insulating properties over the years thanks to the multilayer thermal insulation made of microcellular, cross-linked PE foam with a closed cell structure.

Ultimately, thanks to the strengths of Microflex, your end customers will get a much higher payback on their investment in pre-insulated pipes for the transportation of heat-transfer water in heating and cooling systems.



**Satisfied customers:
lower installation
costs and higher
return on the
insulation investment**



MICROFLEX®
Flexibility, all the way.



Supplies? Always in stock

We have constructed an outstanding logistics platform to provide you with the best possible logistical support:

- 200,000 metres of pipes in stock
- Local stocks at regional distributors close to your site
- All sizes available in full rolls or per metre
- All system accessories in stock

Microflex is the complete and ultra-flexible solution for a network of insulated pipes. These include heating pipes, hot sanitary water pipes, cooling water pipes, conduits to carry other fluids etc.

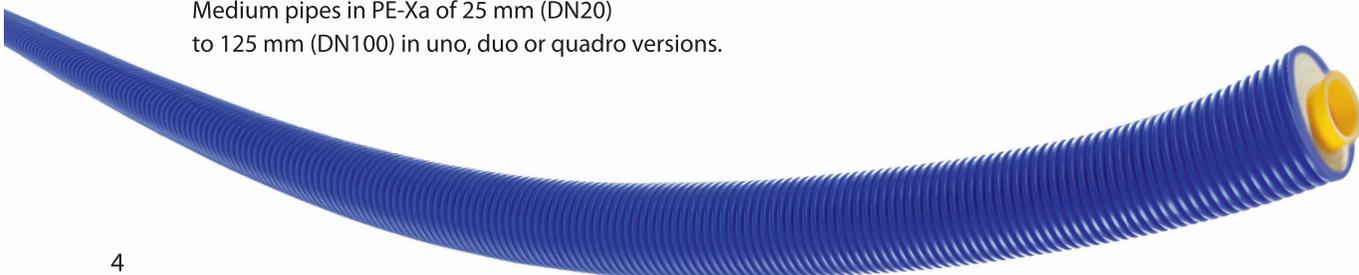


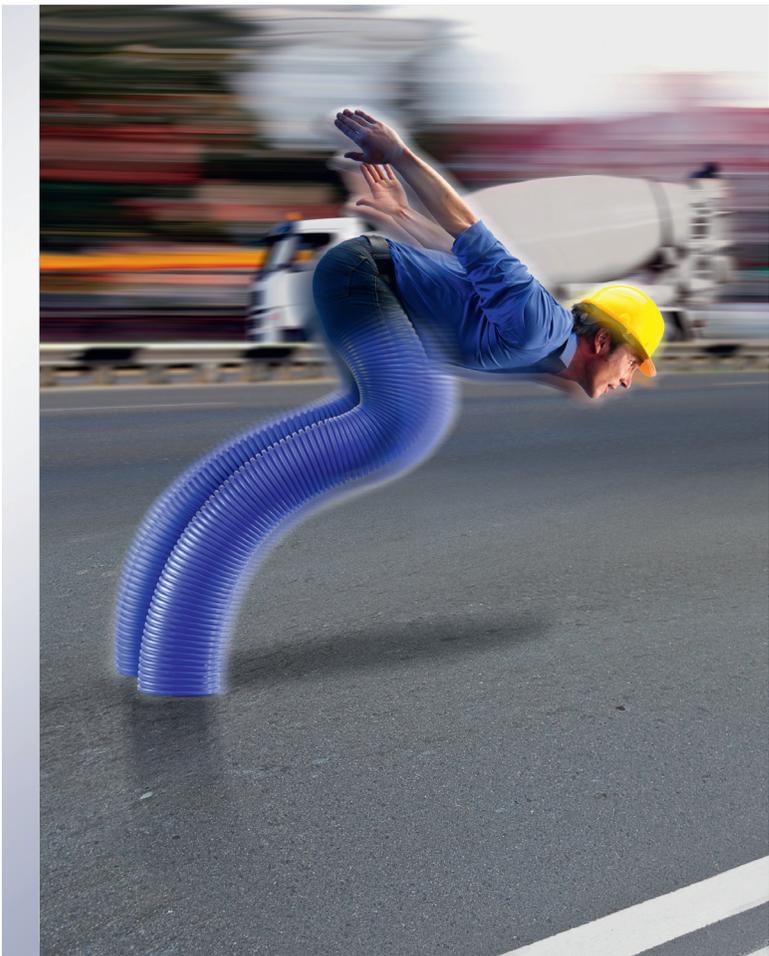
A solution for every application

- District heating, providing residential areas and commercial complexes with energy-efficient heating from one central source:
 - Traditional fossil fuel heating sources
 - Cogeneration plants (CHP excess heat)
 - Renewable energy sources such as biomass, heat pumps and wood (pellet) boilers
- District cooling, feeding residential neighbourhoods and holiday resorts from a central refrigeration unit
- Domestic connections to local heating and cooling sources
- Distribution of sanitary hot water and drinking water in both district networks and domestic applications
- Evacuation of wastewater
- Transport of various fluids

All sizes

Medium pipes in PE-Xa of 25 mm (DN20) to 125 mm (DN100) in uno, duo or quadro versions.





Delivery? Always on time on-site

We are totally committed to be the fastest supplier in the marketplace - and we achieve this goal thanks to our advanced and service-oriented logistics platform.

Flexibility is in our nature. As soon as your order comes in we get straight to work to deliver:

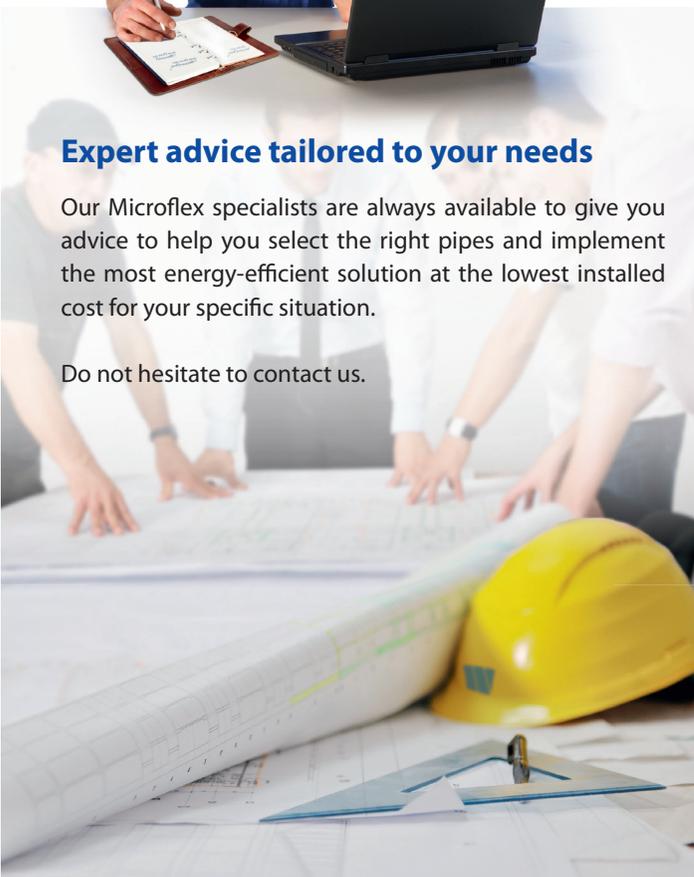
- directly to your site
- on the agreed day
- per metre or in rolls of 100 m



Expert advice tailored to your needs

Our Microflex specialists are always available to give you advice to help you select the right pipes and implement the most energy-efficient solution at the lowest installed cost for your specific situation.

Do not hesitate to contact us.





Installation? Always more flexible, at a lower cost

Microflex pipes are widely recognised to be the most flexible on the market and guarantee the highest installation efficiency:

- No couplings or attachments necessary at obstacles
- Faster assembly times
- Advantageous installation costs
- Lower Total Cost of Ownership



Due to the unique geometry of the outer casing and the highly flexible microcellular cross-linked polyethylene foam with a closed cell structure, Microflex pipes are well-known as the most flexible pipes in the market.

A tube with two PE-Xa medium pipes of 40 mm has an internal bending radius of less than 0.6 m.

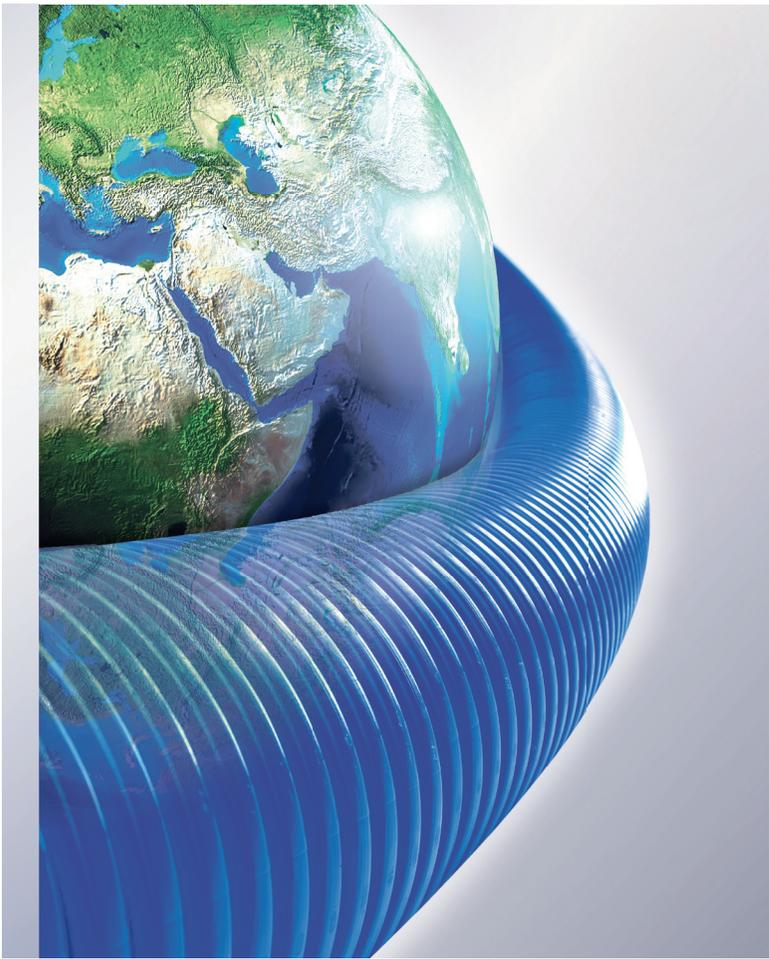
It has never been easier to lay pipes around turns and obstacles. If the installer encounters an obstacle in the desired pipe laying track, he no longer has to cut the pipe, remove the insulation from the heat transfer tube and assemble multiple accessories to get around it. He simply bends the Microflex tube around the turn or obstacle.

This method of installation saves a lot of time and money. Working with Microflex pipes results in faster assembly times and lower installation costs.

Other benefits of installing Microflex pipes:

- Fewer staff and less equipment necessary for installation, thanks to the low weight of the pipes
- No skilled welders necessary to make the connections
- No specific assembly tools required
- No expensive pre-insulated bends required
- Simple and safe modular system of connections, including insulation and finishing kits

*In short, Microflex gives you a **lower total cost of ownership.***

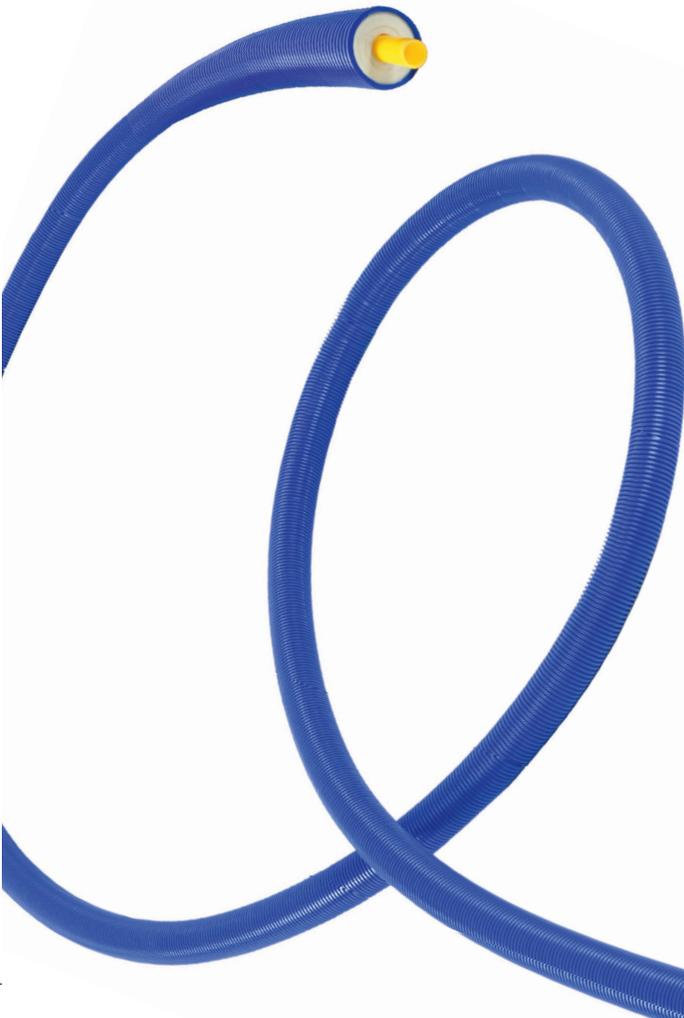


Microflex. Saving energy and preserving the environment

Microflex manufactures products that contribute to a sustainable future. Our products help keep energy consumption and CO₂ emissions to a minimum.

Microflex pipes are recyclable, contain no pollutants and are non-toxic. All materials used are produced without CFCs (chlorofluorocarbons) that can deplete the ozone layer. During the production process we are highly conscious of energy consumption and there is no pollution of air, water or soil.

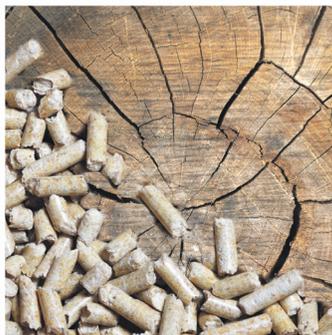
Microflex. Ideal for renewable energy applications



***Geothermal
heat pumps***



***Heat pumps for air /
ground water***

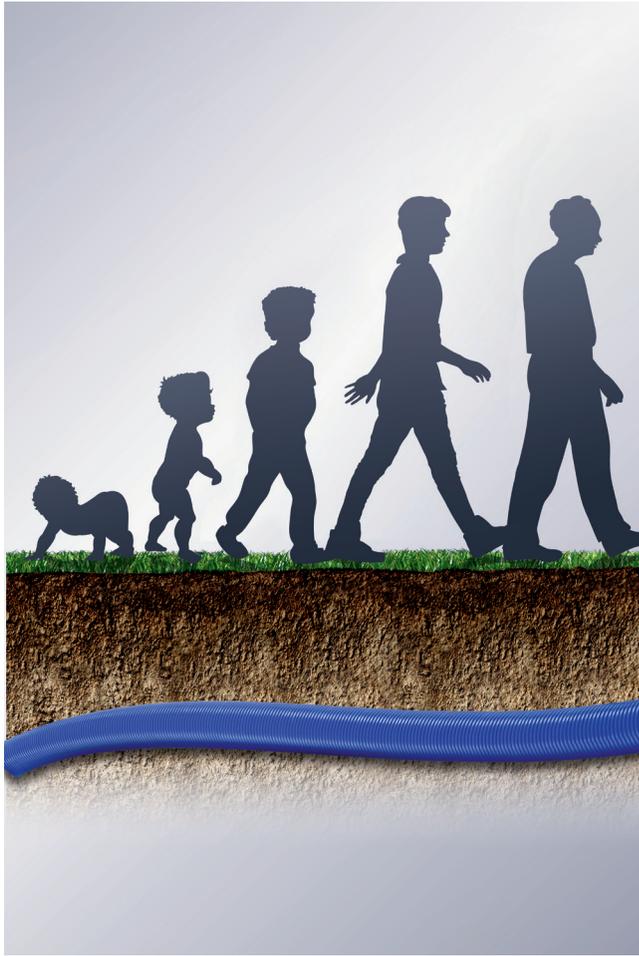


Wood and pellet boilers



Biomass and biogas





Outstanding aging resistance for a lifetime of high insulation performance

- Superior insulation performance
- No deterioration of the insulation properties
- Consistent insulation performance over their whole lifetime

Superior insulation performance

Microflex cross-linked PE-X insulation foam displays significantly superior insulating properties compared to non-cross-linked polyolefin insulation foams.

The constant insulation properties of Microflex cross-linked closed cell polyethylene foam are more stable than alternative thermoset foams. The latter may exhibit better initial insulation properties, but are prone to material-specific aging (λ -aging).

Insulation performance remains constant throughout a long lifetime

The excellent aging resistance of the Microflex insulation material ensures a long lifetime of high insulation performance. Microflex pipes retain their optimum insulating properties over the years thanks to the multilayer thermal insulation made of microcellular, cross-linked PE foam with a closed cell structure. This high performance endures even after uncoiling and repeated bending of the system – in contrast to more rigid and inflexible thermoset foams which are susceptible to aging phenomena.



Extra protection through unique double outer casing

A unique feature of Microflex pipes is the double-walled outer casing. Its 'closed cell' structure consists of a thick, ribbed outer wall - a guarantee of strength - and a slightly corrugated inner wall - a guarantee of unparalleled flexibility.

This double-walled outer casing of PE-HD is waterproof, and also protects the heat transfer pipe and the insulation from external effects such as shock and aggressive fluids.



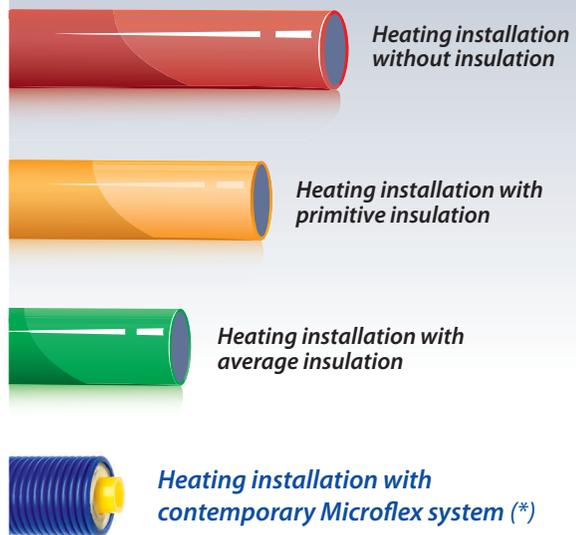
***Satisfied customers:
higher return on
the insulation
investment***

Thanks to the outstanding aging resistance and consistently superior insulation performance of the Microflex PE-X cross-linked PE foam insulation, your customers can achieve high and repeatable annual energy savings.

The heat loss with pre-insulated piping from Microflex is extremely small. For example: in a heating network operating at a 80°C/60°C temperature regime, 100 m of our MD20063C pipe limits the temperature drop to only 0.2°C at its maximum capacity (235 kW).

Microflex therefore provides your end customer with a much higher return on the insulation investment.

HEAT LOSSES IN HEATING NETWORKS



() In a heating network operating at a 80°C/60°C temperature regime, 100 m of Microflex MD20063C pipe limits the temperature drop to only 0.2°C at its maximum capacity (235 kW).*



The couplings with the highest performance on the market



MICROFLEX COUPLINGS HOLD A UNIQUE POSITION IN THE MARKET: THEY ARE ESPECIALLY DEVELOPED FOR THESE APPLICATIONS.



Designed with extra-long retaining nipple that prevents leaks

This provides optimal resistance to longitudinal tensile (dilatation) forces and lateral forces. Consequently, Microflex offers the best couplings on the market to minimise the risk of leaks



No special tools required to assemble couplings

Retaining nipple and clamping ring are made of dezincification-free brass

This is particularly valuable in drinking water installations as it prevents corrosion caused by dezincification

Special couplings. New: steel to plastic

Full range of variants: plastic to plastic as well as steel to plastic.



Full range of sizes from 18 mm to 160 mm

Total system and specific customised solutions



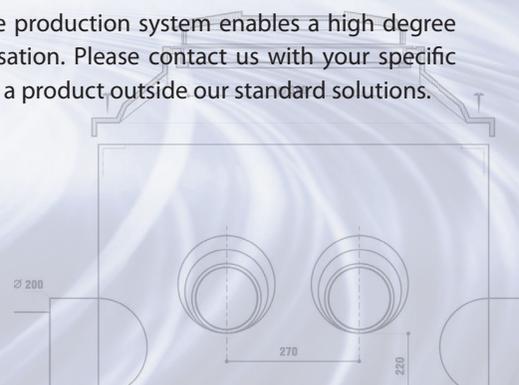
Microflex offers a comprehensive total system solution, including a full range of complementary accessories, to give you everything you need for your pre-insulated piping system.

Our experienced staff and our network of specialised distribution partners will gladly support you in select-

ing the appropriate product solution for your specific application, and will assist you in your project dimensioning and related thermodynamic calculations.

Our flexible production system enables a high degree of customisation. Please contact us with your specific enquiry for a product outside our standard solutions.

$\frac{T_f + T_r}{2} - T_0$
 T_f : Flow temperature
 T_r : Return temperature
 T_0 : Ground temperature



MICROFLEX®

Flexibility, all the way.

Committed to continually improve

All our processes are ISO 9001 certified. Each part of the Microflex system is carefully designed. Only the finest ingredients are retained and incorporated into a unique high-tech process that adheres to the strictest quality standards.

As part of our mission at Microflex, we continuously strive to improve our quality and develop new products. Our engineers and technicians are constantly developing and testing innovative new insulation materials. Microflex strives for solutions that are more effective, more cost-efficient and more sustainable. In this way, Microflex seeks to reduce the consumption of the world's limited natural resources.



Watts Insulation nv

Wingepark 59A - 3110 Rotselaar - Belgium
t + 32 (0)16 44 21 31 - f + 32 (0)16 44 03 68
microflex@wattsinsulation.com
www.wattsinsulation.com
www.microflex.be



WATTS
INSULATION
A Company of Watts Industries Europe B.V.