



MUNICIPEX[®] PI
POLYURETHANE INSULATED PEXa WATER SERVICE PIPING

INSULATED MUNICIPEX®

FLEXIBILITY FOR WATER SERVICE LINE APPLICATIONS

MUNICIPEX PI polyurethane insulated PEXa water service piping is specially designed for water distribution in extreme cold climates that require an extra level of protection from freezing, or when laying pipe below the frost line is not possible. MUNICIPEX PI offers ease of installation, combined with the long-term performance of PEXa pipe.

MUNICIPEX PI Pipe

MUNICIPEX PI consists of REHAU MUNICIPEX carrier pipe surrounded by a solid layer of CFC-free polyurethane foam insulation and a corrugated LDPE outer jacket. The outer casing of the MUNICIPEX system “locks” firmly into the backfill while the insulation is bonded to both the casing and the MUNICIPEX pipe, increasing durability and flexibility.

MUNICIPEX PI is available in continuous coils of 300 ft (94 m) reducing the number of joints needed for the pipeline as well as the cost and time associated with installation. Carrier pipe sizes of 1 and 2 in. are available with or without an integrated conduit to accommodate heat-trace cables. Custom coil lengths are also available upon request.

MUNICIPEX Carrier Pipe

MUNICIPEX crosslinked polyethylene (PEXa) carrier pipe is manufactured using the high-pressure peroxide method for crosslinking polyethylene pipe. This manufacturing process provides MUNICIPEX with enhanced benefits compared to other water service line pipes in the market, including:

- Increased flexibility
- Long-term toughness
- In-field kink repair
- Enhanced thermal memory
- Greater elongation to break
- Uniform crosslinking of entire wall thickness

The smooth interior wall of the MUNICIPEX carrier pipe provides superior flow and consistent water pressure, and resists mineral build-up and bacterial growth.



- 1 MUNICIPEX (PEXa) Pipe
- 2 Conduit for Heat-trace
- 3 Polyurethane Insulation
- 4 LDPE Outer Case

MUNICIPEX Fitting Solutions

Produced to copper tube size OD, MUNICIPEX carrier pipe connects to standard, off-the-shelf, potable water fitting solutions such as AWWA C800 compression joint valves and fittings and ASTM F2080 compression-sleeve fittings. These fitting options not only make MUNICIPEX pipe easy and convenient to install, but also provide reliable joints that allow for immediate pressure testing and are safe to bury.

MUNICIPEX is rated for continuous use at operating conditions up to 200 psi @ 73.4°F (1,380 kPa @ 23°C) using a 0.63 design factor.*



MUNICIPEX PI coils ease installation

*See REHAU Technical Bulletin 239 for clarification

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