

PEX-GARD

Guide Specification

SYSTEM REQUIREMENTS

The preinsulated (heating hot water, domestic hot water, chilled water or potable hot water) piping system shall be a flexible and bonded design. All components of the piping system, service pipe, insulation and jacket shall perform as a single unit. The piping system design shall not allow for the components to be separated. All materials of construction shall be non-corrosive. The system shall not require expansion compensation design. The system shall be designed to minimize the number of field joints.

The system supplied shall be complete with all couplings, field joint insulation kits, branch tees, termination fittings and end seals. All service pipe components shall be NSF rated.

The piping system shall be supplied in coiled lengths with maximum coil length based on the service pipe size as follows: 1" 1,180 feet, 1.5" 492 feet , 2" 328 feet , 3" 164 feet , 4" 164 feet

SERVICE PIPE

The service pipe shall be peroxide cross-linked polyethylene (PEX) in accordance with DIN 16892 and 16893. The service pipe shall have an organic oxygen-diffusion barrier of red EVAL (Ethylvenylalcohol) in accordance with DIN 4726. The service pipe shall be rated at 180 psig at 70°F and 90 psig at 200°F.

INSULATION

The insulation shall be bonded closed cell polyurethane foam with a maximum thermal conductivity (K-factor) of 0.19 Btu-in/hr-ft²-°F and minimum 90% closed cell content. The insulation shall completely fill the annular space and form a bond to both the service pipe and polyethylene outer jacket. Systems that are of a non-bonded construction shall not be allowed.

OUTER JACKET

The outer jacket material shall be extruded polyethylene designed for H₂O loading at a minimum burial depth of two feet. The jacket shall be extruded over the insulation. Systems with the outer jacket not directly extruded over the insulation shall not be allowed.

END SEALS

All terminations of the piping system shall have a heat shrinkable polyethylene end seal. The end seal shall be field installed.

INSTALLATION

The piping system supplier shall provide on site technical assistance for critical periods of installation. All piping shall be installed in accordance with the PEX-GARD installation manual.

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