

PEX WATER SERVICE LINE
SUGGESTED SPECIFICATION AWWA C904 – SHORT VERSION

REHAU supplies PEXa municipal water service pipe under the name MUNICIPEX Water Service Line.

This draft specification is provided only as an aid in architect's/engineer's development of the final specification and is not intended as a substitute for sound architectural/engineering judgment. The architect/engineer shall be responsible to convert this draft specification into a final specification that meets the functional and aesthetic needs of his/her client, as well as to comply with all applicable codes.

- Crosslinked polyethylene (PEXa) municipal water service pipe shall be manufactured using the high-pressure peroxide method of crosslinking.
- Pipe shall be certified to AWWA C 904 *Cross-linked Polyethylene (PEX) Pressure Pipe, 1/2 in. (12 mm) Through 3 in. (76 mm), for Water Service* by approved testing agency. In addition, pipe shall be certified to standards ASTM F876, CSA B137.5, NSF 14 and NSF 61, by approved testing agencies, with a standard materials designation code of 3306.
- Pipe shall demonstrate ability to satisfy the performance requirements of section F.7 of PPI TR-3 for PE materials in order to apply a 0.63 design factor resulting in a temperature/pressure rating of:
 - 200 psi @ 73.4°F (1380 kPa @ 23°C).
- Pipe shall be rated for:
 - 160 psi @ 73.4°F (1103 kPa @ 23°C) and
 - 100 psi @ 180°F (690 kPa @ 82°C) per PPI TR-4.
- Pipe shall have a co-extruded UV Shield made from UV-resistant high-density polyethylene, color Blue.
- Pipe shall have minimum recommended UV exposure time of one (1) year when tested in accordance with ASTM F2657, or as per manufacturer's recommendations.
- Pipe shall be compatible with cold-expansion compression-sleeve fittings certified to ASTM F2080 for installations as cold as -40°F (-40°C).
- Pipe shall be approved for use with AWWA C800 fittings when using manufacturer's recommended insert.
- Pipe shall be approved by manufacturer for use with manual plastic pipe squeeze-off tools for temporary stoppage of flow.
- Pipe shall be approved by manufacturer to be repaired using hot air, if kinked in the field.
- Pipe shall have the minimum markings: PEXa 3306, CSA B137.5, ASTM F876, F2023 and F2080, NSF-pw-g.