



Listing Number: PMG-1008

Effective Date: May 1, 2008

This listing is subject to re-examination in one year.

ICC Evaluation Service, Inc.
www.icc-es.org/pmg

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CSI: DIVISION: 15—MECHANICAL
Section: 15140—Domestic Water Piping
Section: 15180—Heating and Cooling Piping

Products: Watts Radiant PEX, and Water PEX by Watts

Listee: Watts Radiant, Inc.
4500 East Progress Place
Springfield, Missouri 65803
www.wattsradiant.com

Compliance with the following codes:

2003 *International Plumbing Code*® (IPC)
2003 *International Residential Code*® (IRC)
2003 *International Mechanical Code*® (IMC)
1997 ICBO *Uniform Mechanical Code* (ICBO UMC)
2003 IAPMO *Uniform Plumbing Code* (IAPMO UPC)*
2003 IAPMO *Uniform Mechanical Code* (IAPMO UMC)*

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Compliance with the following standards:

ASTM F 876-04
ASTM F 877-02e1
NSF 61-2003e

Identification:

The tubing must be marked at maximum intervals of 5 feet (1524 mm) with the manufacturer's name (Watts Radiant Inc.), the product name (Watts Radiant PEX or Water PEX by Watts), nominal tube size, material designation (PEX), standard dimension ratio (SDR-9), temperature and pressure ratings, ASTM F 876/F877 designation, the name of the third-party inspection agency (NSF), production code, potable water designation (for Water PEX by Watts), and either the ICC-ES evaluation report number (ESR-1155) or the ICC-ES PMG listing number (PMG-1008) and/or the ICC-ES PMG listing mark.

Installation:

Installation of Watts Radiant PEX and Water PEX by Watts tubing is to comply with the applicable code and the manufacturer's published installation instructions.



Listings are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the listing or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this listing, or as to any product covered by the listing.

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Fittings for Watts Radiant PEX and Water PEX by Watts tubing are to consist of brass, copper or polysulphone resin insert fittings and copper crimp rings, complying with ASTM F 877. Fittings are to comply with the applicable code and be recognized in a current ICC-ES evaluation report or listing.

Clearances from heat-producing equipment must be in accordance with Section 503.7.7 of the 2006 *International Fuel Gas Code*[®], Section M1306 of the IRC or Section 802.10.5 of the IAPMO UMC, as applicable.

Models: Tubing:

The Watts Radiant PEX is tubing produced from cross-linked polyethylene compound complying with ASTM F 876 and NSF-61.

The Watts Radiant PEX tubing is available in orange, white, natural, red or blue, and with an oxygen barrier on the outside layer.

Water PEX by Watts is tubing produced from cross-linked polyethylene compound complying with ASTM F 876 and NSF-61.

The Water PEX by Watts tubing is available in red, natural, blue and white colors.

Both products are available in nominally $\frac{1}{4}$ -, $\frac{3}{8}$ -, $\frac{1}{2}$ -, $\frac{5}{8}$ -, $\frac{3}{4}$ -, 1-, $1\frac{1}{4}$ -, $1\frac{1}{2}$ - and 2-inch diameters (6.4, 9.5, 12.7, 15.9, 19.1, 25.4, 32, 38 and 51 mm) and come in 100- to 1200-foot-long (30.5 to 365.8 m) coils.

Some diameters of both products are also available in 5-, 10- and 20-foot-long (1.5, 3.0 and 6.1 m) straight lengths.

Conditions of Listing:

1. Details on the design and installation of the radiant heating system must be submitted to the building official for approval.
2. The tubing must be maintained at the proposed operating pressure during placement of concrete cover for hydronic piping system.
3. The tubing installation must be pressure-tested for leaks in the presence of the building official or the official's designated representative.
4. When installation is in fire-resistive assemblies, evidence of compliance with IBC Section 712 or UBC Section 710 must be provided to the building official.
5. The potable water connections must be protected against backflow from the hydronic heating system.
6. The tubing must not be used as a source of electrical ground.
7. Minimum bending radius is eight times the outside tube diameter of the PEX tube. The outside diameter is the nominal diameter plus $\frac{1}{8}$ inch (3.2 mm).
8. The tubing is recognized for applications using potable water.