ICC-ES PMG Listing

PMG-1035

Effective Date: June 1, 2009

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

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

Product: Pexgol PE-Xa, Slant/Fin-Heating PE-Xa, Slant/Fin-Plumbing PE-Xa, AquaSeal PE-Xa, AquaHeat PE-Xa, PlumberFriendly PE-Xa, GTPEX™ PE-Xa and HeatFlow PEX PE-Xa

PEX Tubing for Use in Hydronic Heating, and Water Supply Systems

Listee: Golan Plastic Products Ltd.
Kibbutz Shaar HaGolan
Jordan Valley 15145
Israel
www.pexgol.com

Additional listee:

ComfortPro Systems
8150 North Lehigh
Morton Grove, Illinois 60053
www.comfortprosystems.com

Compliance with the following codes:

2006 *International Plumbing Code*® (IPC)
2006 *International Residential Code*® (IRC)
2006 *International Mechanical Code*® (IMC)
2006 IAPMO *Uniform Plumbing Code*® (IAPMO UPC)
2006 IAPMO *Uniform Mechanical Code*® (IAPMO UMC)

Compliance with the following standards:

ASTM F 876-04
ASTM F 876-07
NSF 14
NSF 61-2007
LC1004

Identification:

Tubing: The tube is marked every 5 feet (1524 mm) with the Golan Plastic Products Ltd. initials (G.P.P.), the product or trade name, the nominal tube size, the material designation (PE-Xa 1006), the standard dimension ratio (SDR 9), the temperature and pressure ratings [180˚F/100 psi (82˚C/689 kPa)], the ASTM F 876 designation, the production code, the potable water designation, the name of the inspection agency [NSF International (AA-633)] and the ICC-ES PMG listing mark. The ICC-ES PMG listing number (PMG-1035) is optional.

Fittings: Packages of fittings must be identified as complying with ASTM F 1807, ASTM F 1960 or ASTM F 2080, and marked as being recognized in a current ICC-ES evaluation report.

Installation:

The tubing must be installed in accordance with the manufacturer's published installation instructions and the applicable code. Installation is subject to approval by the code official having jurisdiction.

Water distribution and water service piping: Installed tubing must be pressure-tested and inspected as required by IPC Section 606.6, IRC Section P2503.6, or IAPMO UPC Section 609.4.

Radiant heat piping: The tubing must be pressure-tested for leaks before installation of the cover, as noted in IRC Section M2103.3, IMC Section 1208, or IAPMO UMC Section 1207.0, as applicable. The leak test must be witnessed by the code official.

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 tubing is produced from a crosslinked polyethylene compound.

The tubing is sold under these trade names:

- Pexgol
- Slant/Fin-Heating
- Slant/Fin-Plumbing
- AquaSeal
- AquaHeat
- PlumberFriendly
- GTPEX™
- Heatflow PEX

The natural- or black-colored tubing is SDR-9 and is available in nominal diameters of $^{3}/_{8}$, $^{1}/_{2}$, $^{5}/_{8}$, 1, $1^{1}/_{4}$, $1^{1}/_{2}$, 2, $2^{1}/_{4}$, $2^{1}/_{2}$, 3, $3^{1}/_{2}$, 4, $4^{1}/_{2}$, 5 and 6 inches (10, 13, 16, 19, 25, 32, 38, 51, 64, 76,89, 102, 114, 127, and 152 mm) and in coils of various lengths, and may be coated.

Conditions of listing:

1. Details on the design and installation of the heating system must be submitted to the code official for approval.
2. During placement of the cover over the tubing, the tube must be maintained at the greater of $1^{1}/_{2}$ times the working pressure or 100 psi (689.4 kPa).
3. The tubing installation must be pressure-tested for leaks in the presence of the code official or the official's designated representative prior to covering.
4. When installation is in fire-resistive-rated assemblies, evidence of compliance with the 2006 *International Building Code*® (IBC) Section 712 (penetrations), 1997 *Uniform Building Code*™ (UBC) Section 709 (walls and partitions), or UBC Section 710 (floor/ceiling or roof/ceiling), as applicable, must be provided to the code 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 six times the outside tube diameter of the PEX tube. The outside diameter is the nominal diameter plus $^{1}/_{8}$ inch (3.2 mm).
8. The tubing serving as a component of radiant systems is limited to applications using potable water as the transfer fluid.
9. When the system is embedded in concrete, tubing must be covered a minimum of $^{3}/_{4}$ inch (19.1 mm) and installation must comply with IBC Section 1906.3 or UBC Section 1906.3, as applicable.
10. This listing is based on experimental grade data at 180°F, and so standard grade must be achieved within 18 months.
11. The tubing is manufactured in Israel, under a quality control program with inspections by NSF International (AA-633).