

**ICC-ES PMG Listing****PMG-1034**

Effective Date: October 1, 2009

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

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A Subsidiary of the International Code Council®

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

Product: Pexgol PE-Xc, Slant/Fin-Heating PE-Xc, Slant/Fin-Plumbing PE-Xc, AquaSeal PE-Xc, AquaHeat PE-Xc, PlumberFriendly PE-Xc, GTPEX™ PE-Xc and HeatFlow PEX PE-Xc  
  
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](http://www.pexgol.com)

## Additional Listee:

ComfortPro Systems  
8150 North Lehigh  
Morton Grove, Illinois 60053  
[www.comfortprosystems.com](http://www.comfortprosystems.com)

## Compliance with the following codes:

2009 *International Plumbing Code*® (IPC)  
2009 *International Residential Code*® (IRC)  
2009 *International Mechanical Code*® (IMC)  
2009 IAPMO *Uniform Plumbing Code*\* (IAPMO UPC)\*  
2009 IAPMO *Uniform Mechanical Code*\* (IAPMO UMC)\*

\**Uniform Plumbing Code* and *Uniform Mechanical Code* are copyrighted publications of the International Association of Plumbing and Mechanical Officials.

## Compliance with the following standards:

ASTM F 876 Standard Specification for Crosslinked Polyethylene (PEX) Tubing  
NSF 14 Plastics Piping system Components  
NSF 61 Drinking Water System Components – Health Effects  
LC-1004 PMG Listing Criteria for PP, PEX, PEX-AL-PEX and PP-AL-PP Piping, Tube and Fittings  
Used in Radiant Heating and Water Supply Systems

## 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-Xc 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-1034) 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 P2503.7, 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 M2103.4, 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 2009 *International Fuel Gas Code*® Section 503.7.7, IRC Section M1306 or IAPMO UMC Section 802.10.5, as applicable.

Models: **Tubing:** The tubing is produced from a crosslinked polyethylene compound.

The tubing is sold under the trade names:

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

The natural-, black-, blue-, red- or white-colored tubing is available in nominal diameters of  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$  and  $\frac{3}{4}$  inch (10, 13, 16 and 19 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  $1\frac{1}{2}$  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 2009 *International Building Code*® (IBC) Section 713 (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  $\frac{1}{8}$  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  $\frac{3}{4}$  inch (19.1 mm) and installation must comply with IBC Section 1906.3 or UBC Section 1906.3, as applicable.