

# ICC-ES Report

# PMG-1034

ICC-ES | (800) 423-6587 | (562) 699-0543 | [www.icc-es.org](http://www.icc-es.org)

Reissued 10/2016  
This report is subject to renewal 10/2017

EVALUATION SUBJECT:

**PEXGOL PE-XC, SLANT/FIN-HEATING PE-XC, SLANT/FIN-  
PLUMBING PE-XC, AQUASEAL PE-SC, AQUAHEAT PE-XC,  
PLUMBERFRIENDLY PE-XC, GTPLEX™ PE-XC AND HEATFLOW  
PEX PE-XC**

**PEX TUBING FOR HYDRONIC HEATING AND WATER SUPPLY  
SYSTEMS**

**DIVISION:**

22 00 00—PLUMBING

**SECTION:**

22 11 16—DOMESTIC WATER PIPING

**DIVISION:**

23 00 00—HEATING, VENTILATION AND AIR CONDITIONING (HVAC)

**SECTION:**

23 21 13—HYDRONIC PIPING

Report Holder:

**GOLAN PLASTIC PRODUCTS LTD.**

KIBBUTZ SHAAR HAGOLAN  
JORDAN VALLEY 15145 ISRAEL



Look for the ICC-ES marks of Conformity!



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

Effective Date: October 2016

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

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A Subsidiary of the International Code Council®

CSI: DIVISION: 22 00 00—PLUMBING  
Section: 22 11 16—Domestic Water Piping  
DIVISION: 23 00 00—HEATING, VENTILATION AND AIR CONDITIONING (HVAC)  
Section: 23 21 13—Hydronic Piping

Product: Pexgol PE-Xc, Slant/Fin-Heating PE-Xc, Slant/Fin-Plumbing PE-Xc, AquaSeal PE-Xc, AquaHeat PE-Xc, PlumberFriendly PE-Xc, GTPLEX™ 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:

2015, 2012 and 2009 *International Plumbing Code*® (IPC)  
2015, 2012 and 2009 *International Residential Code*® (IRC)  
2015, 2012 and 2009 *International Mechanical Code*® (IMC)  
2015, 2012 and 2009 *Uniform Plumbing Code*® (UPC)\*  
2015, 2012 and 2009 *Uniform Mechanical Code*® (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 F876-2015a, Standard Specification for Cross-linked Polyethylene (PEX) Tubing  
NSF/ANSI 14-2016, Plastics Piping system Components  
NSF/ANSI 61-2016, Drinking Water System Components – Health Effects  
ICC-ES LC1004 (June 2010), 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 F876 designation, the production code, the potable water designation, and the ICC-ES PMG listing mark.

**Fittings:** Packages of fittings must be identified as complying with ASTM F1807, ASTM F1960 or ASTM F2080, 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 Chapter 6, IRC Chapter 25, or UPC Chapter 6.

Radiant heat piping: The tubing must be pressure-tested for leaks before installation of the cover, as noted in IRC Chapter 21, IMC Chapter 12, or UMC Chapter 12, as applicable. The leak test must be witnessed by the code official.

Clearances from heat-producing equipment must be in accordance with *International Fuel Gas Code*® Chapter 5, IRC Chapter 13 or UMC Chapter 8, as applicable.

## Models:

**Tubing:** The tubing is produced from a cross-linked 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 *International Building Code*® (IBC) Chapter 7 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 Chapter 19 (if applicable).
10. The product is manufactured in Jordan Valley, Israel, under a quality control program with surveillance inspections by ICC-ES.