



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

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: ComoPex PEX Tubing

Listee: Interplast S.A.
Industrial area of Komotini
Komotini 69100 Greece
www.interplast.gr

Compliance with the following codes:

2021, 2018, 2015, 2012 and 2009 *International Plumbing Code®* (IPC)
2021, 2018, 2015, 2012 and 2009 *International Mechanical Code®* (IMC)
2021, 2018, 2015, 2012 and 2009 *International Residential Code®* (IRC)
2021, 2018, 2015, 2012 and 2009 *Uniform Plumbing Code®* (UPC)*
2021, 2018, 2015, 2012 and 2009 *Uniform Mechanical Code®* (UMC)*
2019, 2016, 2013 and 2010 *California Plumbing Code* (CPC)
2019, 2016, 2013 and 2010 *California Mechanical Code* (CMC)
2020 and 2017 *City of Los Angeles Plumbing Code*
2020 and 2017 *City of Los Angeles Mechanical Code*
2021, 2017 and 2007 *Code of Massachusetts Regulation 248 CMR 10.00: Uniform State Plumbing Code*
2021, 2017 *Massachusetts State Building Code 780 CMR Ninth Edition: Chapter 28*
2020, 2015 and 2010 *National Plumbing Code of Canada®* (NPC**)

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Compliance with the following standards:

ASTM F876-2022ae1, Standard Specification for Cross-linked Polyethylene (PEX) Tubing
NSF/ANSI 14-2021, Plastics Piping System Components and Related Materials
NSF/ANSI/CAN 61-2022, Drinking Water System Components – Health Effects
CSA B137.5-2020 Crosslinked Polyethylene (PEX) Tubing Systems for Pressure Applications
NSF/ANSI 372-2022, Drinking Water System Components – Lead Content

Identification:

The tubing must be marked every 5 feet (1524 mm) with the manufacturer's product name; nominal tubing size; material designation (e.g. PEX 5306); standard dimension ratio (SDR9); temperature and pressure ratings; ASTM F876 designation; production code; the potable water designation, if applicable (PW or Potable Water), and the ICC-ES PMG listing mark.

Installation:

ComoPex tubing must be installed in accordance with the manufacturer's published installation instructions, the applicable codes and this listing. Where differences exist, the instructions in this listing must govern.

Water Service: ComoPex tubing must be installed underground in a manner that ensures external loads will not cause a decrease in the vertical dimension of the cross section exceeding 5 percent. Tubing must be installed to provide an allowance for contraction of the line due to temperature change prior to backfilling. In areas with poor soil conditions (plastic clays), the trench bottom must be prepared using granular material to provide a stable base. Potable water service tubing must not be located in, under or above cesspools, septic tanks, septic tank drainage fields or pits.

Water Distribution: ComoPex tubing laid horizontally must be secured in such a manner that temperature-induced expansion and contraction are accommodated. In areas using the UPC, the PEX tubing must not be installed within the first 18 inches (457 mm) of piping connected to a water heater.

Radiant Heating Systems: ComoPex tubing is used in radiant heating systems. Installation is to comply with the applicable chapters in the referenced mechanical codes and with the manufacturer's published installation instructions. Details of the design and installation of the radiant heating system are to be submitted to the code official for approval. All circuits are to be formed from continuous lengths of tubing, from manifold supply to return. No splices are allowed. The system may be installed in either concrete or wood floors. When the system is embedded in concrete floors, a moisture barrier is to be laid over a concrete base slab a minimum of 3½ inches (89 mm) thick. Under-floor insulation and reinforcing mesh is then to be placed on the slab. The tubing is uncoiled and attached to the mesh using plastic fasteners. A concrete topping is then laid over the tubing. When embedment is in concrete, installation (including minimum concrete cover) is to comply with IBC Section 1906.3 or UBC Section 1906.3, as applicable. When the tubing is installed over polystyrene foam plastic boards, the boards are to comply with IBC Section 2603, IRC Section R316, or UBC Section 2602, as applicable. Mounting brackets and installation hardware are provided by the manufacturer. Horizontally laid pipe is to be secured in such a way that temperature-induced expansion and contraction are accommodated.

Models:**Tubing:**

ComoPex (PEX 5306) multilayer pipe with oxygen barrier is manufactured from cross-linked polyethylene (PEX-b) materials satisfying NSF 14 and 61, as well as ASTM F 876. ComoPex tubing is available in natural, red, and blue. The tubing is available in nominal diameters of 10mm-3/8 inch through 1-1/2 inches (10 through 38 mm), and in coils ranging from 25 to 2000 feet (8 to 610 m) in length.

Tubing has a pressure and temperature rating of 690 kPa at 82°C and/or 100 psi at 180°F and been found to meet the chlorine resistance requirements of ASTM F876 when tested in accordance with ASTM F2023.

Conditions of Listing:

1. Tubing must be manufactured, identified and installed in accordance with this listing, the applicable code and the manufacturer's published installation instructions. Tubing and fittings must be installed by trained installers. The manufacturer's published installation instructions must be furnished to the code official. The instructions within this listing must govern if there are any conflicts between the manufacturer's published instructions and this listing.
2. When installation is in fire-resistance-rated assemblies, evidence of compliance with IBC Section 713 (penetrations), UBC Section 709 (walls and partitions) and UBC Section 710 (floor/ceiling or roof/ceiling), as applicable, must be provided to the code official for approval.
3. ComoPex tubing must be protected from exposure to direct sunlight. Tubing and fittings must be protected from physical damage with an oversized flexible corrugated sleeve at structural mass penetrations and when the tubing is uncovered. Annular spaces between sleeves and pipes must be filled or tightly caulked in an approved manner.
4. During placement of cover over the tubing, the tubing must be maintained at the greater of 1½ times the working pressure or 100 psi (689.4 kPa).
5. Each installation must be pressure-tested for leaks in the presence of the code official or the code official's designated representative.
6. Clearances from heat-producing equipment must be in accordance with the applicable code.
7. Fittings used with ComoPex tubing must be complying with NSF 61 and ASTM F 1807, ASTM F 1960, ASTM F 2080, ASTM F 2098 or ASTM F 2159.
8. The use of tubing on hydronic systems is limited to applications using potable water as the transfer fluid.
9. Minimum bending radius of the tube must be eight times the outside tube diameter. The outside diameter is the nominal diameter plus 1/8 inch (3.2 mm).
10. The ComoPex tubing is under a quality control program with inspections by ICC-ES.