



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.

Products: CB Supplies Ltd. CanPEX Tubing and Fittings

Listee: CB Supplies Ltd.
3325 190th Street
Surrey, British Columbia V3Z 1A7
www.CBSupplies.ca

Compliance with the following codes:

2024, 2021, 2018, 2015, 2012 and 2009 *International Plumbing Code*® (IPC)
2021, 2018, 2015, 2012 and 2009 *International Residential Code*® (IRC)
2024, 2021, 2018, 2015, 2012 and 2009 *International Mechanical Code*® (IMC)
2024, 2021, 2018, 2015, 2012 and 2009 *Uniform Plumbing Code*® (UPC)*
2024, 2021, 2018, 2015, 2012 and 2009 *Uniform Mechanical Code*® (UMC)*
2017 *Uniform Illustrated Plumbing Code-India* (UIPC-India)*
2022, 2019, 2016, 2013 and 2010 *California Plumbing Code* (CPC)
2022, 2019, 2016, 2013 and 2010 *California Mechanical Code* (CMC)
2023, 2020 and 2017 *City of Los Angeles Plumbing Code*
2023, 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*

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Compliance with the following standards:

ASTM F876-2023a, Standard Specification for Crosslinked Polyethylene (PEX)
ASTM F877-2023, Standard Specification for Crosslinked Polyethylene (PEX) Plastic Hot- and Cold-Water Distribution Systems
ASTM F1807-2023, Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing

ASTM F2159-2023a, Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing
NSF/ANSI 14-2022, Plastic Piping System Components and Related Materials
NSF/ANSI/CAN 61-2023, Drinking Water System Components – Health Effects
AWWA C904-2022, Crosslinked Polyethylene (PEX) Pressure Tubing, 1/2 In. (13 mm) Through 3 In. (76 mm), for Water Service
ICC-ES LC1004 (Approved November 2009, Editorially revised 2010), 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 CanPEX tubing covered by this listing must be labeled at minimum intervals of 5 feet (1524 mm) with the manufacturer's name and/or trademark, product name (CanPEX; CanPEX UV Plus MD; CanPEX UV +; CanPEX UV+MD; CanPLUMB; CanPex UV; CanPEX UV Plus; Canflex; Vanex; CanPEX Barrier; CanPEX OXY Barrier; CanRay; RadiantMax; LYNX-PEX or Vanex Barrier), nominal tubing size, potable water designation, standard dimension ratio (SDR 9), material designation, pressure rating, standard designation, and the ICC-ES PMG listing mark.

Fittings: The CanPEX plumbing system fitting components consist of metal or plastic insert fittings with crimp system and manifolds. CB Supplies Ltd. approved compression fittings not manufactured by CB Supplies Ltd. may be used for radiant heating. Fitting components covered by this listing must be labeled with the trademark name, potable water designation, nominal size, product code, and standard designation. Packages of fittings must bear the trademark name, product name, part number and preferably the ICC-ES PMG listing mark. Fittings compliant with the standards and with other independent third party listings are acceptable for use with the CanPEX plumbing system as well.

Installation:

General: CB Supplies Ltd. CanPEX tubing and fittings must be identified and installed in accordance with this listing, the applicable code and the manufacturer's published installation instructions. Manufacturer's published installation instructions must be furnished to the code official. Installation must conform to the requirements of the applicable code and is subject to approval by the code official having jurisdiction.

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

Inspection of Water Distribution Piping: Installed tubing must be pressure-tested and inspected as required by Chapter 3 of the IPC, Chapter 25 of the IRC or Chapter 1 of the UPC.

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

Models:

Tubing: CB Supplies tubing products are manufactured from crosslinked polyethylene (PEX) materials.

CB Supplies Ltd. tubing has the following trade names: CanPEX; CanPEX UV Plus MD; CanPEX UV +; CanPEX UV+MD; CanPLUMB; CanPex UV CanPEX UV Plus; Canflex; Vanex; LYNX-PEX and the tubing is available in Red; White or Blue colors.

CB Supplies Ltd. tubing with trade names: CanPEX Barrier; CanPEX OXY Barrier; CanRay; RadiantMax or Vanex Barrier is manufactured from cross linked polyethylene materials with a red colored layer and a clear oxygen barrier layer.

The tubing is available in 3/8"; 1/2"; 5/8"; 3/4"; 1"; 1 1/4"; 1 1/2" and 2" (9; 13; 16; 19; 25; 32; 38; and 51 mm) nominal diameter sizes in 100; 250; 300; 500; 1000 or 1200 feet (30.4; 76.2; 91.4; 152.4;

304.8; 365.7 meters) coils in length or straight lengths of 20 feet (6.1 meters). CB Supplies tubing is made with a standard dimensional ratio of 9 (SDR9), which is the ratio of the outside diameter to the wall thickness. Tubing made with a standard dimension ratio of 9 has a pressure rating of 100 psi (689 kPa) at 180° F (82° C) and 160 psi (1100 kPa) at 73° F (23° C).

Fittings: The CanPEX fitting system composed metal or plastic insert fittings with crimp system and manifolds. CB Supplies Ltd. approved compression fittings not manufactured by CB Supplies Ltd. may be used for radiant heating.

Conditions of Listing:

1. The tubing must be maintained at the proposed operating pressure during placement of concrete cover for a hydronic piping system.
2. The tubing installation must be pressure-tested for leaks in the presence of the code official or the official's designated representative.
3. When installation is in fire-resistive assemblies, evidence of compliance with IBC Section 712 (penetrations) must be provided to the code official.
4. The tubing must not be used as a source of electrical ground.
5. The minimum cold free-bending radius is eight times the outside diameter, or five times the outside diameter with use of a bend support supplied by CB Supplies Ltd. The outside diameter is the nominal diameter plus $\frac{1}{8}$ inch (3.2 mm).
6. All systems must be installed in accordance with the manufacturer's installation instructions, which are provided with the product. Installation must conform to relevant requirements of the referenced codes and is subject to approval by the code official. Manufacturer's instructions must be furnished to the code official upon request.
7. The tubing and fittings are supplied by CB Supplies Ltd. under a quality control program with surveillance inspections by ICC-ES.