



CSI: DIVISION: 22 00 00—PLUMBING  
Section: 22 11 16—Domestic Water 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: Legend HyperPure and AquaPure PE-RT Tubing

Listee: American Legend Manufacturing LLC  
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Auburn Hills, Michigan 48326  
[www.legendvalve.com](http://www.legendvalve.com)

### Compliance with the following codes:

2024, 2021, 2018, 2015, 2012 and 2009 *International Plumbing Code*® (IPC)  
2024, 2021, 2018, 2015, 2012 and 2009 *International Residential Code*® (IRC)  
2024, 2021, 2018, 2015, 2012 and 2009 *Uniform Plumbing Code*® (UPC)\*  
2022, 2019, 2016, 2013 and 2010 California Plumbing Code (CPC)  
2023, 2020 and 2017 City of Los Angeles Plumbing Code  
2023, 2021, 2017 and 2007 Code of Massachusetts Regulation 248 CMR 10.00: Uniform State Plumbing Code  
2020, 2015, 2010 and 2005 *National Plumbing Code of Canada (NPC)*\*\*  
2024 Ontario Regulation 332/12: *Building Code, Section 7 Plumbing*

\* Copyrighted publication of the International Association of the Plumbing and Mechanical Officials

\*\* Copyrighted publication of the National Research Council Canada

### Compliance with the following standards:

ASTM F2769-2024, Polyethylene of Raised Temperature (PE-RT) Plastic Hot and Cold-Water Tubing and Distribution Systems  
CSA B137.18-2020, Polyethylene of Raised Temperature Resistance (PE-RT) Tubing Systems for Pressure Applications  
NSF/ANSI 14-2023, Plastic Piping System Components and Related Materials  
NSF/ANSI/CAN 61-2023, Drinking Water System Components – Health Effects  
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 Legend HyperPure or AquaPure PE-RT tubing shall be marked every 5 feet (1524 mm) with the manufacturer's name and/or trademark, nominal tubing size, potable water designation, chlorine resistance classification (CL-5), standard dimension ratio (SDR 9), material designation, temperature and pressure rating, standard designation, the production code and the ICC-ES PMG listing mark.

**Installation:**

Legend HyperPure and AquaPure PE-RT tubing 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, PE-RT 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*<sup>®</sup>, Chapter 13 of the IRC or Chapter 8 of the UMC, as applicable.

**Models:**

**Tubing:** The Legend HyperPure and AquaPure tubing are manufactured from Polyethylene of Raise Temperature (PE-RT) materials and is available in Natural (white), Blue or Red colors.

The tubing is available in 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", and 2" (7, 10, 13, 19, 25, 32, 38, and 51 mm) nominal diameter sizes in 100, 300, 500, or 1000 feet (30.4, 91.4, 152.4, or 304.8 meters) coils in length or straight lengths of 20 feet (6.1 meters). The Legend HyperPure and AquaPure PE-RT 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 (690 kPa) at 180° F (82° C) and 200 psi (1380 kPa) at 73° F (23° C).

The Legend HyperPure and AquaPure tubing may be joined by SmartClick™ fittings recognized in ICC-ES Report number PMG-1444, or any other manufacturer specified fittings.

**Conditions of Listing:**

1. 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), whichever is greater.
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 American Legend Manufacturing LLC. The outside diameter is the nominal diameter plus 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 is manufactured under a quality control program with bi-annual inspections by ICC-ES.