

**ICC-ES PMG Listing****PMG-1011***Reissued: April 1, 2009**This listing is subject to re-examination in one year.***www.icc-es.org/pmg | (800) 423-6587 | (562) 699-0543***A Subsidiary of the International Code Council®*

CSI: Division: 15—MECHANICAL  
Section: 15140—Domestic Water Piping

Product: PermaLynx Push-Fit Fittings for Copper Tubing

Listee: Victaulic Company  
4901 Kesslersville Road  
Easton, Pennsylvania 18040

Compliance with the following codes:

2006 *International Plumbing Code*® (IPC)  
2006 *International Residential Code*® (IRC)  
2006 *International Mechanical Code*® (IMC)

Compliance with the following standards:

ANSI/NSF 61-2002  
ASME B 1.20.1-1983 (R1999)  
ASTM B 88-03  
ASSE 1061-2006  
LC1009

Identification:

PermaLynx push-fit fittings are labeled with the product name (PermaLynx), nominal size, potable water mark (NSF 61), logo of the third-party inspection agency [CSA International (AA-659)] and either the ICC-ES evaluation report number (ESR-1458) or the ICC-ES PMG listing mark and/or the ICC-ES PMG listing number (PMG-1011).

Packages of fittings bear the Victaulic Company name, product name, manufacturer's designation, the name of the third-party inspection agency (CSA International) and either the ICC-ES evaluation report number (ESR-1458) or the ICC-ES PMG listing mark and/or the ICC-ES PMG listing number (PMG-1011).

Installation:

The PermaLynx push-fit fittings described in this listing must be installed in accordance with the manufacturer's published installation instructions and the applicable code. Installation is limited to seamless rigid copper tubing complying with ASTM B 88. Prior to installation of the fitting, the end of the copper tubing must be inspected to ensure that it is cut square and is not dented or oval or have flat spots. The end of the tubing must be reamed on the inside to ensure proper flow, and chamfered on the outside to remove any burrs that might damage the EPDM seal of the PermaLynx fitting. The tubing must be sanded clean to a distance equal to the fitting's installation depth and must be marked to indicate the proper insertion depth of the tubing into the fitting. The tubing must be lubricated with

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non-petroleum-based lubricant or a lubricant that does not contain soap or a detergent that includes chlorides. The tubing is inserted into the fitting, to the required depth, while maintaining direct alignment between the tubing and the fitting.

**Models:** The PermaLynx push-fit fittings are manufactured from ASME B16.22 copper alloy and comply with ASSE 1061 and NSF 61. The fitting opening intended for push-fit connection has an EPDM sealing ring and a stainless steel gripping ring. Threaded ends of fittings comply with ASME B1.20.1 as tapered pipe threads.

The fittings range in size from  $\frac{1}{2}$  inch to  $1\frac{1}{2}$  inches in diameter (13 mm to 38 mm).

**Conditions of Listing:**

1. PermaLynx fittings are limited to interior, above-grade installations where the fittings are not embedded in concrete.
2. PermaLynx fittings and connected tubing must not be used to support any load beyond that of the water-filled pipe and fittings.
3. The potable water distribution system utilizing the PermaLynx push-fit fittings must be pressure-tested and inspected in accordance with IPC Section 312.5 or IRC Section P2503.6, as applicable.
4. Radiant heating systems must be pressure-tested for leaks before installation of the covering, as noted in IMC Section 1208 and IRC Section M2103.3, as applicable.
5. The PermaLynx Push-fit fittings are manufactured in Allentown, Pennsylvania, under a quality control program with inspections by CSA International (AA-659).

**TABLE 1**

SIZE (inches)	DESCRIPTION	END CONFIGURATION	FIGURE NUMBER
$\frac{1}{2}$	Coupling	PL x PL	PL-600
$\frac{3}{4}$	Coupling	PL x PL	PL-600
$\frac{3}{4} \times \frac{1}{2}$	Coupling	PL x PL	PL-600R
1	Coupling	PL x PL	PL-600
$1 \times \frac{3}{4}$	Coupling	PL x PL	PL-600R
$1 \times \frac{1}{2}$	Coupling	PL x PL	PL-600R
$1\frac{1}{4}$	Coupling	PL x PL	PL-600
$1\frac{1}{4} \times 1$	Coupling	PL x PL	PL-600R
$1\frac{1}{4} \times \frac{3}{4}$	Coupling	PL x PL	PL-600R
$1\frac{1}{2}$	Coupling	PL x PL	PL-600
$1\frac{1}{2} \times 1\frac{1}{4}$	Coupling	PL x PL	PL-600R
$1\frac{1}{2} \times 1$	Coupling	PL x PL	PL-600R
$\frac{1}{2}$	Threaded Adapter	PL x F	PL-603
$\frac{1}{2} \times \frac{3}{4}$	Threaded Adapter	PL x F	PL-603R
$\frac{3}{4}$	Threaded Adapter	PL x F	PL-603
$\frac{3}{4} \times \frac{1}{2}$	Threaded Adapter	PL x F	PL-603R
1	Threaded Adapter	PL x F	PL-603
$1 \times \frac{3}{4}$	Threaded Adapter	PL x F	PL-603R
$1\frac{1}{4}$	Threaded Adapter	PL x F	PL-603
$1\frac{1}{2}$	Threaded Adapter	PL x F	PL-603
$\frac{1}{2}$	Threaded Adapter	PL x M	PL-604
$\frac{1}{2} \times \frac{3}{4}$	Threaded Adapter	PL x M	PL-604R
$\frac{3}{4}$	Threaded Adapter	PL x M	PL-604
$\frac{3}{4} \times \frac{1}{2}$	Threaded Adapter	PL x M	PL-604R
1	Threaded Adapter	PL x M	PL-604
$1\frac{1}{4}$	Threaded Adapter	PL x M	PL-604
$1\frac{1}{2}$	Threaded Adapter	PL x M	PL-604
$\frac{1}{2}$	45° Elbow	PL x PL	PL-606
$\frac{3}{4}$	45° Elbow	PL x PL	PL-606
1	45° Elbow	PL x PL	PL-606
$1\frac{1}{4}$	45° Elbow	PL x PL	PL-606
$1\frac{1}{2}$	45° Elbow	PL x PL	PL-606
$\frac{1}{2}$	90° Elbow	PL x PL	PL-607
$\frac{3}{4}$	90° Elbow	PL x PL	PL-607

TABLE 1 (Continued)

SIZE (inches)	DESCRIPTION	END CONFIGURATION	FIGURE NUMBER
$\frac{3}{4} \times \frac{1}{2}$	90° Elbow	PL x PL	PL-607R
1	90° Elbow	PL x PL	PL-607
$1\frac{1}{4}$	90° Elbow	PL x PL	PL-607
$1\frac{1}{2}$	90° Elbow	PL x PL	PL-607
$\frac{1}{2}$	Tee	PL x PL x PL	PL-611
$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$	Tee	PL x PL x PL	PL-611BH
$\frac{3}{4}$	Tee	PL x PL x PL	PL-611
$\frac{3}{4} \times \frac{3}{4} \times 1$	Tee	PL x PL x PL	PL-611BH
$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{2}$	Tee	PL x PL x PL	PL-611R
$\frac{3}{4} \times \frac{1}{2} \times \frac{3}{4}$	Tee	PL x PL x PL	PL-611RR
$\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$	Tee	PL x PL x PL	PL-611RR
1	Tee	PL x PL x PL	PL-611
$1 \times 1 \times \frac{3}{4}$	Tee	PL x PL x PL	PL-611R
$1 \times 1 \times \frac{1}{2}$	Tee	PL x PL x PL	PL-611R
$1\frac{1}{4}$	Tee	PL x PL x PL	PL-611
$1\frac{1}{4} \times 1\frac{1}{4} \times 1$	Tee	PL x PL x PL	PL-611R
$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{3}{4}$	Tee	PL x PL x PL	PL-611R
$1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{2}$	Tee	PL x PL x PL	PL-611R
$1\frac{1}{2}$	Tee	PL x PL x PL	PL-611
$1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{4}$	Tee	PL x PL x PL	PL-611R
$1\frac{1}{2} \times 1\frac{1}{2} \times 1$	Tee	PL x PL x PL	PL-611R
$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{4}$	Tee	PL x PL x PL	PL-611R
$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$	Tee	PL x PL x PL	PL-611R
$\frac{1}{2}$	Cap	PL	PL-617
$\frac{3}{4}$	Cap	PL	PL-617
1	Cap	PL	PL-617
$1\frac{1}{4}$	Cap	PL	PL-617
$1\frac{1}{2}$	Cap	PL	PL-617
$\frac{1}{2} \times \frac{3}{4}$	Coupling	PL x FTG	PL-600-2R
$\frac{3}{4} \times 1$	Coupling	PL x FTG	PL-600-2R
$\frac{1}{2} \times 1$	Coupling	PL x FTG	PL-600-2R
$\frac{1}{2}$	45° Elbow	PL x FTG	PL-606-2
$\frac{3}{4}$	45° Elbow	PL x FTG	PL-606-2
1	45° Elbow	PL x FTG	PL-606-2
$1\frac{1}{4}$	45° Elbow	PL x FTG	PL-606-2
$1\frac{1}{2}$	45° Elbow	PL x FTG	PL-606-2
$\frac{1}{2}$	90° Elbow	PL x FTG	PL-607-2
$\frac{3}{4}$	90° Elbow	PL x FTG	PL-607-2
1	90° Elbow	PL x FTG	PL-607-2
$1\frac{1}{4}$	90° Elbow	PL x FTG	PL-607-2
$1\frac{1}{2}$	90° Elbow	PL x FTG	PL-607-2
$\frac{1}{2}$	Long Turn 90° Elbow	PL x PL	PL-607LT
$\frac{3}{4}$	Long Turn 90° Elbow	PL x PL	PL-607LT
1	Long Turn 90° Elbow	PL x PL	PL-607LT
$1\frac{1}{4}$	Long Turn 90° Elbow	PL x PL	PL-607LT
$1\frac{1}{2}$	Long Turn 90° Elbow	PL x PL	PL-607LT
$\frac{1}{2}$	90° Elbow	PL x F	PL-707-3
$\frac{3}{4}$	90° Elbow	PL x F	PL-707-3
1	90° Elbow	PL x F	PL-707-3
$\frac{1}{2}$	Drop 90° Elbow	PL x F	PL-707-3-5
$\frac{3}{4}$	Drop 90° Elbow	PL x F	PL-707-3-5
$\frac{1}{2}$	90° Elbow	PL x M	PL-707-4
$\frac{3}{4}$	90° Elbow	PL x M	PL-707-4

TABLE 1 (Continued)

SIZE (inches)	DESCRIPTION	END CONFIGURATION	FIGURE NUMBER
1	90° Elbow	PL x M	PL-707-4
1/2	Tee	PL x PL x F	PL-712
3/4	Tee	PL x PL x F	PL-712
1	Tee	PL x PL x F	PL-712
1/2	Union	PL x PL	PL-733
3/4	Union	PL x PL	PL-733
1	Union	PL x PL	PL-733
1 1/4	Union	PL x PL	PL-733
1 1/2	Union	PL x PL	PL-733
1/2	Union Thread Piece	PL x F	PL-733-3
3/4	Union Thread Piece	PL x F	PL-733-3
1	Union Thread Piece	PL x F	PL-733-3
1/2	Union Thread Piece	PL x M	PL-733-4
3/4	Union Thread Piece	PL x M	PL-733-4
1	Union Thread Piece	PL x M	PL-733-4
1	Class 150 Flange	PL x Flange	PL-771
1 1/4	Class 150 Flange	PL x Flange	PL-771
1 1/2	Class 150 Flange	PL x Flange	PL-771
1/2	Drop Ear Elbow	PL x PL	PL-707-5
1/2	Drop Ear Elbow w/ Stub	PL x Stub	PL-707-5S

For SI: 1 inch = 25.4 mm.