



CSI: DIVISION: 23 00 00—HEATING, VENTILATING AND AIR CONDITIONING (HVAC)
Section: 23 20 00—HVAC 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: PEX-AL-PEX Pipe and Compression Fittings for Refrigeration

Listee: Rifeng Enterprise (Foshan) Co., Ltd.
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Compliance with the following codes:

2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Mechanical Code*® (IMC)
2024, 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
2024, 2021, 2018, 2015, 2012, 2009 and 2006 *Uniform Mechanical Code*® (UMC)*

**Uniform Mechanical Code is a copyrighted publication of the International Association of Plumbing and Mechanical Officials.*

Compliance with the following standards:

ASTM F1281-2024, Standard Specification for Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Pressure Pipe
ICC-ES LC 1035-2015, Standard Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Pipe and Fittings for Refrigeration Applications

Identification:

Pipe: The RIFENG/RIIFO PEX-AL-PEX pipe is marked every 5 feet (1.5 m) with the following: company name or trademark, nominal tube size, material designation (PEX-AL-PEX), temperature and pressure ratings, production code, and the ICC-ES PMG listing mark.

Fittings: fittings shall be marked with manufacturer's name or trademark, and the ICC-ES PMG listing mark.

Installation:

RIFENG/RIIFO pipes and fittings must be installed in accordance with the manufacturer's published installation instructions, the applicable codes and this listing. All installations must be pressure-tested for leaks.

Mechanical joints shall not be used on annealed temper copper tube in sizes larger than $\frac{7}{8}$ -inch (22.2 mm) OD size per IMC and $\frac{3}{4}$ " of an inch nominal size per UMC.

Models:**Pipe:**

Trade Name: RIFENG, RIIFO

PEX-AL-PEX pipe is manufactured from cross-linked polyethylene (PEX) and aluminum materials satisfying ASTM F1281 and LC1035. The pipe is available in a nominal diameter of 0712mm, 0912 mm, 1216mm, 1418 mm, 1620mm, 1825mm, 2025 mm, 2632 mm, with the option of exterior color in either gold or white.

Fittings:

Trade Name: RIFENG, RIIFO

Compression Fitting of the following sizes can only be used on RIFENG/RIIFO PEX-AL-PEX pipe; fittings cannot be used with pipe from other manufacturer.

Series	Description	DN (mm)
Compression Fitting-F1C	Equal straight union	12、16、18、20、25、32
Compression Fitting-F1C	Unequal straight union	12、16、18、20、25、32
Compression Fitting-F1C	Male straight union	12、16、18、20、25、32
Compression Fitting-F1C	Female straight union	12、16、18、20、25、32
Compression Fitting-F1C	Equal elbow	12、16、18、20、25、32
Compression Fitting-F1C	Unequal elbow	12、16、18、20、25、32
Compression Fitting-F1C	Male elbow	12、16、18、20、25、32
Compression Fitting-F1C	Female elbow	12、16、18、20、25、32
Compression Fitting-F1C	Wall-plated female elbow	12、16、18、20、25、32
Compression Fitting-F1C	Double wall-plated female elbow	12、16、18、20、25、32
Compression Fitting-F1C	Equal tee	12、16、18、20、25、32
Compression Fitting-F1C	Unequal tee	12、16、18、20、25、32
Compression Fitting-F1C	Male tee	12、16、18、20、25、32
Compression Fitting-F1C	Female tee	12、16、18、20、25、32
Compression Fitting-F1C	End cap	12、16、18、20、25、32

RIFENG/RIIFO Pipe and Fittings used in refrigeration applications shall have a temperature range of -40 to 203 °F (-40 to 95 °C) and a maximum working pressure of 552 psi (38 bar). Pipe and fittings of each size have been evaluated for use with following refrigerants: R-22, R-12, R-32, R-11, R134a, R407A, R407C, R404A, R410A and R513A.

Conditions of Listing:

1. The pipe and fittings must be used with only the following refrigerants (R-22, R-12, R-32, R-11, R134a, R407A, R407C, R404A, R410A, R513A).
2. Mechanical joints shall not be used on annealed temper copper tube in sizes larger than 7/8-inch (22.2 mm) OD size per IMC and 3/4" of an inch nominal size per UMC.
3. When installation is in fire-resistance-rated assemblies, evidence must be provided to the code official of compliance with *International Building Code*® (IBC) Section 713 (penetrations), *Uniform Building Code* (UBC) Section 709 (walls and partitions) or UBC Section 710 (floor/ceiling or roof/ceiling), as applicable.
4. The piping must not be used as a source of electrical ground.
5. Pipe bends must be installed in accordance with the manufacturer's published installation instructions.
6. When the system is embedded in concrete, piping must be covered with a minimum of $\frac{3}{4}$ inches (19.1 mm) of concrete and installation must comply with IBC Section 1906.3 or UBC Section 1906.3, as applicable.
7. The pipe and fittings are manufactured under a quality control program with surveillance inspections by ICC-ES.