



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: PERT-AL-PERT Type II Pipe and Fittings for Refrigeration

Listee: YogaPipe, Inc.
800 Hingham Street, Suite 200N
Rockland, MA 02370
www.yogapipe.com

Compliance with the following codes:

2021, 2018, 2015, 2012, 2009 and 2006 *International Mechanical Code*® (IMC)
2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
2021, 2018, 2015, 2012, 2009 and 2006 *Uniform Mechanical Code*® (UMC)*
2019, 2016 and 2013 *California Mechanical Code*® (CMC)*
2020 and 2015 *Minnesota Mechanical and Fuel Code*®
2020 and 2017 *Florida Mechanical Code*®

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Compliance with the following standards:

ASTM F3346-2019, Specification for Polyethylene of Raised Temperature/Aluminum/Polyethylene of Raised Temperature (PERT/AL/PE-RT) Composite Pressure Pipe
ICC-ES LC 1039-2015, PMG Listing Criteria for PERT-AL-PERT Pipe and Fittings for Refrigeration Applications.

Identification:

The YogaPipe ACR PERT-AL-PERT Type II pipe is marked every 5 feet (1.5 m) with the following: manufacturer's name, nominal pipe size, material designation (PERT-AL-PERT), temperature and pressure ratings, production code, and the ICC-ES PMG listing mark.

Installation:

The YogaPipe ACR PERT-AL-PERT Type II pipe and fittings must be installed in accordance with the manufacturer's published installation instructions, the applicable codes and this listing.

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.

Installation of refrigerant piping is limited to line-set applications and for single DX Evaporator and Air Handler of 5 Tons or less, residential, and light commercial use for direct expansion split systems and shall not be used inside factory-built equipment.

Models:

YogaPipe ACR PERT-AL-PERT Type II pipe is manufactured from polyethylene and aluminum materials satisfying ASTM F3346 and LC1039.

The pipe is available in a nominally, $1/4$, $3/8$, $1/2$, $5/8$, $3/4$, $7/8$, and $1 1/8$ inch outside diameter (12, 14, 16, 18, 20, 25 and 32 mm) and in coils or in straight lengths 20 feet (6.2 m) long.

YogaPipe ACR PERT-AL-PERT Type II pipe and fittings used in refrigeration applications shall be have a temperature range of -40 to 203°F (-40 to 95°C), and a working pressure of 580 psi (40 bar). Maximum pressure is 650 (45 bar).

Conditions of Listing:

1. The pipe must be used with only the following refrigerants: R22, R32, R134a, R404a, R407c, R410A and R507.
2. Installation of refrigerant piping is limited to line-set applications and for single DX Evaporator and Air Handler of 5 Tons or less, residential, and light commercial use for direct expansion split systems and shall not be used inside factory-built equipment.
3. 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.
4. The pipe installation must be pressure-tested for leaks in the presence of the code official or the code official's designated representative. Refrigeration system shall include safety device to limit pressure to 650 psi.
5. 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.
6. The pipe must not be used as a source of electrical ground.
7. Pipe bends must be installed in accordance with the manufacturer's published installation instructions.
8. When the system is embedded in concrete, pipe must be covered with a minimum of $3/4$ inches (19.1 mm) of concrete and installation must comply with IBC Section 1906.3 or UBC Section 1906.3, as applicable.
9. The pipe is manufactured are under a quality control program with surveillance inspections by ICC-ES.