



**UPONOR, INC.**  
**5925 148<sup>th</sup> Street West**  
**Apple Valley, MN 55124**  
<https://www.uponor.com/en-us>

**AQUAPEX AND AQUAPEX RECLAIMED WATER PRESSURE RATED TUBING; HEPEX PRESSURE RATED TUBING; PROPEX, COMPRESSION, AND WIPEX FITTINGS**

**CSI Sections:**  
**22 11 16 Domestic Water Piping**  
**23 21 13 Hydronic Piping**

**1.0 RECOGNITION**

The pressure ratings at a given temperature, physical characteristics, drinking water system components, and pipe sizing and pressure loss characteristics properties of the AquaPEX and AquaPEX Reclaimed Water Pressure Rated Tubing, hePEX Pressure Rated Tubing, Propex Fittings, Compression Fittings, and Wipex Fittings have been evaluated and comply with the intent of the provisions of the following codes and regulations:

- 2021, 2018, 2015, 2012, and 2009 Uniform Plumbing Code® (UPC)
- 2021, 2018, 2015, 2012, and 2009 Uniform Mechanical Code® (UMC)
- 2022 and 2019 California Plumbing Code® (CPC) – See Attached Supplement
- 2021, 2018, 2015, 2012, and 2009 International Building Code® (IBC)
- 2021, 2018, 2015, 2012, and 2009 International Residential Code® (IRC)
- 2021, 2018, 2015, 2012, and 2009 International Plumbing Code® (IPC)
- 2021, 2018, 2015, 2012, and 2009 International Mechanical Code® (IMC)
- National Plumbing Code 2015-CANADA (NPC CA) – See Attached Supplement
- 2021, 2018, 2015, 2012, and 2009 National Standard Plumbing Code (NSPC) – See Attached Supplement

**2.0 LIMITATIONS**

Use of the AquaPEX and AquaPEX Reclaimed Water Pressure Rated Tubing, hePEX Pressure Rated Tubing, Propex Fittings, Compression Fittings, and Wipex Fittings recognized in this report is subject to the following limitations:

**2.1** When the installation is in fire-resistive assemblies, evidence of compliance with IBC shall be provided to the building official for approval.

**2.2** The tubing and fittings shall be protected from exposure to direct sunlight as noted in the manufacturer’s installation instructions.

**2.3** Clearances from heat-producing equipment shall be in accordance with the applicable code. The Uniform Plumbing Codes prohibits installation of PEX within 18 inches (457 mm) of a water heater.

**2.4** The tubing shall be maintained at the proposed operating pressure during the placement of concrete or prior to backfilling when used in buried applications.

**2.5** Minimum bending radius shall be six times the outside tube diameter of the PEX tube. The outside diameter is the nominal diameter plus 1/8 inch (3.2 mm) or copper tube size (CTS).

**2.6** The hydronic system details for design and installation shall comply with the applicable code and shall be approved by the building official.

**2.7** Installation of tubing shall be pressure-tested for leaks as required by UPC Section 609, or IPC Section 312, in the presence of the building official.

**2.8** Backflow protection complying with the applicable code shall be provided for the potable water connections serving the Hydronic systems.

**2.9** The tubing shall not be utilized as a source of electrical ground.

**2.10** Uponor products recognized in this report shall be installed in accordance with the applicable code, the manufacturer’s published installation instructions, and this report. Where there is a conflict, the most restrictive requirements shall govern.

**2.11** The Uponor products recognized in this report are produced under a quality control program in Apple Valley, MN; Brescia, Italy; Circle Pines, MN; Frankfort, IL; Hartsville, SC; Hutchinson, MN; Lakeville, MN; Lakeville-Hamburg Facility, MN; San Maurizio d’Opaglio, Italy; Webster City, IA; and Whitewater, WI.

**3.0 PRODUCT USE**

**3.1 General:** Uponor’s AquaPEX cross-linked polyethylene (PEX) tubing and fittings are used in potable hot and cold water distribution, water service, and radiant heating and

*The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.*





cooling systems in buildings of any type of construction allowed under the applicable code. Uponor hePEX cross-linked polyethylene (PEX) tubing and fittings are used in radiant heating and cooling systems. The piping and fittings comply with the following:

- UPC: Sections 313, 604, 605, 609, and 610
- UMC: Sections 316 and 1201
- IBC: Section 603.1.2
- IRC: Sections M1301, M2101, M2103, M2104, P2609, and P2905
- IPC: Sections 308, 605, Appendix E
- IMC: Sections 305, 1202, and 1203

### 3.2 Design and Installation:

**3.2.1** Installers shall be factory trained and approved by Uponor North America.

**3.2.2** [Table 1](#) of this report shall be used in lieu of UPC or CPC Table 610.4 for sizing PEX-a/F1960 domestic water systems.

**3.2.3** For PEX radiant systems, hydronic piping systems, and domestic water systems that are outside the scope of the parameters in [Table 1](#) of this report, the design shall comply with applicable provisions in the UPC, UMC, CPC, IPC, IMC, CSA B214 NPC CA, or NSPC. The sizing design shall incorporate values taken from Uponor Pressure/Friction Loss charts and tables in conjunction with Cv data, which shall be available upon request from Uponor North America.

**3.3 Water Service and Water Distribution:** Tubing installed horizontally shall be laid or supported in a manner that assures the temperature expansion and contraction joints are securely accommodated for.

**3.4 Radiant Systems:** The radiant heating/cooling (hydronic) system installation and design for each type of construction shall be in accordance with Chapter 12 of UMC; Chapter 12 of the IMC, Chapter 21 of the IRC, the manufacturer's published installation instructions, and this report. In the event of a discrepancy between this report and the manufacturer's installation instructions, the more restrictive governs.

Tubing installed horizontally shall be laid or supported in a manner that the temperature expansion and contraction is accommodated for.

### 4.0 PRODUCT DESCRIPTION

**4.1 General:** Uponor Crosslinked Polyethylene Water Distribution System (PEX) has been documented for conformance with ASTM F877-2020 and NSF/ANSI 14-2014 separately by IAPMO R&T as recognized in File #3558.

**4.1.1 AquaPEX, AquaPEX Reclaimed Water, and hePEX Tubing:** Uponor's AquaPEX, AquaPEX Reclaimed Water and hePEX Tubing are manufactured in a Standard Dimensional Ratio of 9 (SDR 9). The tubing is produced from a cross-linked polyethylene compound complying with ASTM F876, and has a 100 psi (690 kPa) pressure rating at 180°F.

**4.1.2 AquaPEX:** AquaPEX is available in nominal sizes of 1/4-inch through 3-inch (6.35 through 76.2 mm) diameters. Uncoated (natural) AquaPEX has a material designation of PEX 5106. Coated (blue & red) AquaPEX has a material designation of PEX 5206. AquaPEX is recognized as conforming to ASTM F 876, as well as conforming to NSF 61 and NSF 14.

**4.1.3 hePEX:** hePEX is used for non-potable and portable applications, such as radiant heating and cooling, and is available in nominal diameters from 5/16-inch through 4-inches (7.94 mm through 102 mm). Uponor hePEX contains an oxygen barrier layer. hePEX is recognized as conforming to ASTM F876 as well as conforming to NSF 61 and NSF 14.

### 4.2 Fittings

**4.2.1 ProPEX Fittings:** Uponor's ProPEX fittings are made of either brass or engineered polymer (EP) and utilize a PEX reinforcing ring in accordance with ASTM F1960. The fitting is installed in the end of the PEX tubing by expanding the tube and PEX reinforcing ring with an expansion tool supplied by Uponor North America or Milwaukee Electric Tool Corporation. The insert end of the fitting is then inserted into the expanded end of the tubing, and within a short period of time the tubing and ring contract around the fitting. ProPEX fittings are available in nominal sizes from 3/8-inch through 3-inch (9.53 mm through 76.2 mm) diameters. ProPEX fittings comply with ASTM F1960.

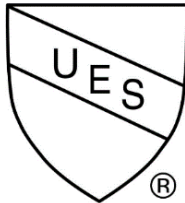
**4.2.2 Compression Fittings:** Uponor's compression type fittings consist of a nut, compression ring, and insert. Compression type fittings are available in nominal sizes from 3/8-inch through 1-inch (9.53 mm through 25.4 mm) diameters. The compression fittings comply with ASTM F877 when used with Uponor AquaPEX, AquaPEX Reclaimed Water, or hePEX tubing.

**4.2.3 Wipex Fittings -** Uponor Wipex fitting system utilizes a double O-ring, brass insert with a brass compression sleeve on the outside of the tubing. Compression fittings comply with NSF 14 and ASTM F877 when used with Uponor AquaPEX or hePEX tubing.



### 5.0 IDENTIFICATION

Products recognized in this report are identified by the Report Holder's name and or trademark, product identifier, evaluation report number (UES ER-253) and the identification required by IAPMO R&T File 3558. The IAPMO Uniform Evaluation Service Mark of Conformity may also be used as shown below:



**IAPMO UES ER-253**

### 6.0 SUBSTANTIATING DATA

**6.1** Test reports are from laboratories in compliance with ISO/IEC 17025.

**6.2** Manufacturer's descriptive literature and installation instructions.

**6.3** IAPMO R&T Listing File 3558 for UPONOR Crosslinked Polyethylene Water Distribution System (PEX).

**6.4** Reports of testing to the following Standards:

- ASTM F876-10 Standard Specification for Crosslinked Polyethylene (PEX).
- ASTM F877, Standard Specification for Crosslinked Polyethylene (PEX) Plastic Hot – and Cold-Water Distribution Systems.
- ASTM F1960, Standard Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing.
- NSF 61, Drinking Water System Components – Health Effects.
- NSF 14, Plastic Piping System Components and Related Materials.

### 7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Uponors AquaPEX and AquaPEX Reclaimed Water Pressure Rated Tubing; hePEX Pressure Rated Tubing; Propex, Compression, and Wipex Fittings to assess conformance to the codes shown in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured at locations noted in Section 2.11 of this report under a quality control program with periodic inspections under the supervision of IAPMO UES.

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email us at [info@uniform-es.org](mailto:info@uniform-es.org)



**TABLE 1  
FIXTURE UNIT TABLE FOR DETERMINING MINIMUM WATER TUBING SIZES**

| Meter and Street Service, Inches                        | Building Supply and Branches, Inches | MAXIMUM ALLOWABLE LENGTH IN FEET (meters) |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
|---|--------------------------------------|---|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|   |                                      | 40  | 60   | 80   | 100  | 150  | 200  | 250  | 300  | 400   | 500   | 600   | 700   | 800   | 900   | 1000  |
|   |                                      | (12)                                      | (18) | (24) | (30) | (46) | (61) | (76) | (91) | (122) | (152) | (183) | (213) | (244) | (274) | (305) |
| <b>Pressure Range – 30 to 45 psi (207 to 310 kPa)**</b> |                                      |   |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 3/4   | 1/2***                               | 6   | 5    | 4    | 3    | 2    | 1    | 1    | 1    | 0     | 0     | 0     | 0     | 0     | 0     |       |
| 3/4   | 3/4                                  | 16  | 16   | 14   | 12   | 9    | 6    | 5    | 5    | 4     | 4     | 3     | 2     | 2     | 1     |       |
| 3/4   | 1                                    | 29  | 25   | 23   | 21   | 17   | 15   | 13   | 12   | 10    | 8     | 6     | 6     | 6     | 6     |       |
| 1   | 1                                    | 36  | 31   | 27   | 25   | 20   | 17   | 15   | 13   | 12    | 10    | 8     | 6     | 6     | 6     |       |
| 3/4   | 1-1/4                                | 36  | 33   | 31   | 28   | 24   | 23   | 21   | 19   | 17    | 16    | 13    | 12    | 11    | 11    |       |
| 1   | 1-1/4                                | 54  | 47   | 42   | 38   | 32   | 28   | 25   | 23   | 19    | 17    | 14    | 12    | 11    | 11    |       |
| 1-1/2   | 1-1/4                                | 78  | 68   | 57   | 48   | 38   | 32   | 28   | 25   | 21    | 18    | 15    | 12    | 11    | 11    |       |
| 1   | 1-1/2                                | 85  | 84   | 79   | 65   | 56   | 48   | 43   | 38   | 32    | 28    | 26    | 22    | 21    | 20    |       |
| 1-1/2   | 1-1/2                                | 150                                       | 124  | 105  | 91   | 70   | 57   | 49   | 45   | 36    | 31    | 26    | 23    | 21    | 20    |       |
| 2   | 1-1/2                                | 151                                       | 129  | 129  | 110  | 80   | 64   | 53   | 46   | 38    | 32    | 27    | 23    | 21    | 20    |       |
| 1   | 2                                    | 85  | 85   | 85   | 85   | 85   | 85   | 82   | 80   | 66    | 61    | 57    | 52    | 49    | 46    |       |
| 1-1/2   | 2                                    | 220                                       | 205  | 190  | 176  | 155  | 138  | 127  | 120  | 104   | 85    | 70    | 61    | 57    | 54    |       |
| 2   | 2                                    | 370                                       | 327  | 292  | 265  | 217  | 185  | 164  | 147  | 124   | 96    | 70    | 61    | 57    | 54    |       |
| 2   | 2-1/2                                | 445                                       | 418  | 390  | 370  | 330  | 300  | 280  | 265  | 240   | 220   | 198   | 175   | 158   | 143   |       |
| <b>Pressure Range – 46 to 60 psi (317 to 414 kPa)**</b> |                                      |   |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 3/4   | 1/2***                               | 7   | 7    | 6    | 5    | 4    | 3    | 2    | 1    | 1     | 1     | 0     | 0     | 0     | 0     |       |
| 3/4   | 3/4                                  | 20  | 20   | 19   | 17   | 14   | 11   | 9    | 8    | 6     | 5     | 4     | 4     | 3     | 3     |       |
| 3/4   | 1                                    | 39  | 39   | 36   | 33   | 28   | 23   | 21   | 19   | 17    | 14    | 12    | 10    | 9     | 8     |       |
| 1   | 1                                    | 39  | 39   | 39   | 36   | 30   | 25   | 23   | 20   | 18    | 15    | 12    | 10    | 9     | 8     |       |
| 3/4   | 1-1/4                                | 39  | 39   | 39   | 39   | 39   | 39   | 34   | 32   | 27    | 25    | 22    | 19    | 19    | 17    |       |
| 1   | 1-1/4                                | 78  | 78   | 76   | 67   | 52   | 44   | 39   | 36   | 30    | 27    | 24    | 20    | 19    | 17    |       |
| 1-1/2   | 1-1/4                                | 78  | 78   | 78   | 78   | 66   | 52   | 44   | 39   | 33    | 29    | 24    | 20    | 19    | 17    |       |
| 1   | 1-1/2                                | 85  | 85   | 85   | 85   | 85   | 85   | 80   | 67   | 55    | 49    | 41    | 37    | 34    | 32    |       |
| 1-1/2   | 1-1/2                                | 151                                       | 151  | 151  | 151  | 128  | 105  | 90   | 78   | 62    | 52    | 42    | 38    | 35    | 32    |       |
| 2   | 1-1/2                                | 151                                       | 151  | 151  | 151  | 150  | 117  | 98   | 84   | 67    | 55    | 42    | 38    | 35    | 32    |       |
| 1   | 2                                    | 85  | 85   | 85   | 85   | 85   | 85   | 85   | 85   | 85    | 85    | 85    | 85    | 85    | 83    |       |
| 1-1/2   | 2                                    | 370                                       | 370  | 340  | 318  | 272  | 240  | 220  | 198  | 170   | 150   | 135   | 123   | 110   | 102   |       |
| 2   | 2                                    | 370                                       | 370  | 370  | 370  | 368  | 318  | 280  | 250  | 205   | 165   | 142   | 123   | 110   | 102   |       |
| 2   | 2-1/2                                | 654                                       | 640  | 610  | 580  | 535  | 500  | 470  | 440  | 400   | 365   | 335   | 315   | 285   | 267   |       |
| <b>Pressure Range – Over 60 psi (414 kPa)**</b>         |                                      |   |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
| 3/4   | 1/2***                               | 7   | 7    | 7    | 6    | 5    | 4    | 3    | 3    | 2     | 1     | 1     | 1     | 1     | 0     |       |
| 3/4   | 3/4                                  | 20  | 20   | 20   | 20   | 17   | 13   | 11   | 10   | 8     | 7     | 6     | 6     | 5     | 4     |       |
| 3/4   | 1                                    | 39  | 39   | 39   | 39   | 35   | 30   | 27   | 24   | 21    | 17    | 14    | 13    | 12    | 11    |       |
| 1   | 1                                    | 39  | 39   | 39   | 39   | 38   | 32   | 29   | 26   | 22    | 18    | 14    | 13    | 12    | 11    |       |
| 3/4   | 1-1/4                                | 39  | 39   | 39   | 39   | 39   | 39   | 39   | 39   | 34    | 28    | 26    | 25    | 23    | 22    |       |
| 1   | 1-1/4                                | 78  | 78   | 78   | 78   | 74   | 62   | 53   | 47   | 39    | 31    | 26    | 25    | 23    | 22    |       |
| 1-1/2   | 1-1/4                                | 78  | 78   | 78   | 78   | 78   | 74   | 65   | 54   | 43    | 34    | 26    | 25    | 23    | 22    |       |
| 1   | 1-1/2                                | 85  | 85   | 85   | 85   | 85   | 85   | 85   | 85   | 81    | 64    | 51    | 48    | 46    | 43    |       |
| 1-1/2   | 1-1/2                                | 151                                       | 151  | 151  | 151  | 151  | 151  | 130  | 113  | 88    | 73    | 51    | 51    | 46    | 43    |       |
| 2   | 1-1/2                                | 151                                       | 151  | 151  | 151  | 151  | 151  | 142  | 122  | 98    | 82    | 64    | 51    | 46    | 43    |       |
| 1   | 2                                    | 85  | 85   | 85   | 85   | 85   | 85   | 85   | 85   | 85    | 85    | 85    | 85    | 85    | 85    |       |
| 1-1/2   | 2                                    | 370                                       | 370  | 370  | 370  | 360  | 335  | 305  | 282  | 244   | 212   | 187   | 172   | 153   | 141   |       |
| 2   | 2                                    | 370                                       | 370  | 370  | 370  | 370  | 370  | 370  | 340  | 288   | 245   | 204   | 172   | 153   | 141   |       |
| 2   | 2-1/2                                | 654                                       | 654  | 654  | 654  | 654  | 650  | 610  | 570  | 510   | 460   | 430   | 404   | 380   | 356   |       |

\*\* Available static pressure after head loss.

\*\*\* Building supply, not less than three-quarter (3/4) inch (20 mm) nominal size.





## CALIFORNIA SUPPLEMENT

**UPONOR, INC.**

**5925 148<sup>th</sup> Street West**

**Apple Valley, MN 55124**

<https://www.uponor.com/en-us>

### **AQUAPEX AND AQUAPEX RECLAIMED WATER PRESSURE RATED TUBING; HEPEX PRESSURE RATED TUBING; PROPEX, COMPRESSION, AND WIPEX FITTINGS**

#### **CSI Sections:**

**22 11 16 Domestic Water Piping**

**23 21 13 Hydronic Piping**

## 1.0 RECOGNITION

The pressure ratings at a given temperature, physical characteristics, drinking water system components and pipe sizing, and pressure loss characteristics properties of the AquaPEX and AquaPEX Reclaimed Water Pressure Rated Tubing; hePEX Pressure Rated Tubing; Propex Fittings, Compression Fittings, and Wipex Fittings have been evaluated and comply with the intent of the provisions of the following codes and regulations:

- 2022 and 2019 California Plumbing Code (CPC)

## 2.0 LIMITATIONS

Use of Uponor's AquaPEX and AquaPEX Reclaimed Water Pressure Rated Tubing; hePEX Pressure Rated Tubing; Propex Fittings, Compression Fittings, and Wipex Fittings recognized in this report is subject to the following limitations:

**2.1** The requirements of ER-253 are applicable under this supplement.

**2.2** Installation of tubing shall be pressure-tested for leaks as required by CPC Section 609 in the presence of the building official.

**2.3** This supplement expires concurrently with ER-253.

## 3.0 PRODUCT USE

Uponor's AquaPEX cross-linked polyethylene (PEX) tubing and fittings are used in potable hot and cold-water distribution, water service, and radiant heating and cooling systems in buildings of any type construction allowed under the applicable code. Uponor hePEX cross-linked polyethylene (PEX) tubing and fittings are used in radiant heating and cooling systems. The piping and fittings comply with Sections 313, 604, 605, 609, and 610 of the CPC.

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email us at [info@uniform-es.org](mailto:info@uniform-es.org)



## NATIONAL PLUMBING CODE 2015- CANADA (NPC CA) SUPPLEMENT

**UPONOR, INC.**

**5925 148<sup>th</sup> Street West**

**Apple Valley, MN 55124**

<https://www.uponor.com/en-us>

### **AQUAPEX AND AQUAPEX RECLAIMED WATER PRESSURE RATED TUBING; HEPEX PRESSURE RATED TUBING; PROPEX, COMPRESSION, AND WIPEX FITTINGS**

#### **CSI Sections:**

**22 11 16 Domestic Water Piping**

**23 21 13 Hydronic Piping**

#### **1.0 RECOGNITION**

The pressure ratings at a given temperature, physical characteristics, drinking water system components, and pipe sizing and pressure loss characteristics properties of the AquaPEX and AquaPEX Reclaimed Water Pressure Rated Tubing, hePEX Pressure Rated Tubing, Propex Fittings, Compression Fittings, and Wipex Fittings have been evaluated and comply with the intent of the provisions of the following codes and regulations:

- National Plumbing Code 2015-CANADA (NPC CA)

#### **2.0 LIMITATIONS**

Use of Uponor's AquaPEX and AquaPEX Reclaimed Water Pressure Rated Tubing, hePEX Pressure Rated Tubing, Propex Fittings, Compression Fittings, and Wipex Fittings recognized in this report is subject to the following limitations:

**2.1** The requirements of ER-253 are applicable under this supplement.

**2.2** Installation of tubing shall be pressure-tested for leaks as required by NPC CA Section 2.3.7 in the presence of the building official.

**2.3** This supplement expires concurrently with ER-253.

#### **3.0 PRODUCT USE**

Uponor's AquaPEX cross-linked polyethylene (PEX) tubing and fittings are used in potable hot and cold-water distribution, water service, and radiant heating and cooling systems in buildings of any type construction allowed under the applicable code. Uponor hePEX cross-linked polyethylene (PEX) tubing and fittings are used in radiant heating and cooling systems. The piping and fittings comply with Sections 2.2.5.7 and 2.3.4.5 of the NPC CA.

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email us at [info@uniform-es.org](mailto:info@uniform-es.org)



## NATIONAL STANDARD PLUMBING CODE (NSPC) SUPPLEMENT

### UPONOR, INC.

5925 148<sup>th</sup> Street West

Apple Valley, MN 55124

<https://www.uponor.com/en-us>

### AQUAPEX AND AQUAPEX RECLAIMED WATER PRESSURE RATED TUBING; HEPEX PRESSURE RATED TUBING; PROPEX, COMPRESSION, AND WIPEX FITTINGS

#### CSI Sections:

22 11 16 Domestic Water Piping

23 21 13 Hydronic Piping

#### 1.0 RECOGNITION

The pressure ratings at a given temperature, physical characteristics, drinking water system components, and pipe sizing and pressure loss characteristics properties of the AquaPEX and AquaPEX Reclaimed Water Pressure Rated Tubing, hePEX Pressure Rated Tubing, Propex Fittings, Compression Fittings, and Wipex Fittings have been evaluated and comply with the intent of the provisions of the following codes and regulations:

- 2021, 2018, 2015, 2012, and 2009 National Standard Plumbing Code (NSPC)

#### 2.0 LIMITATIONS

Use of Uponor's AquaPEX and AquaPEX Reclaimed Water Pressure Rated Tubing, Pressure Rated Tubing, Propex Fittings, Compression Fittings, and Wipex Fittings recognized in this report is subject to the following limitations:

**2.1** The requirements of ER-253 are applicable under this supplement.

**2.2** Installation of tubing shall be pressure-tested for leaks as required by NSPC Section 15.6 in the presence of the building official.

**2.3** This supplement expires concurrently with ER-253.

#### 3.0 PRODUCT USE

Uponor's AquaPEX cross-linked polyethylene (PEX) tubing and fittings are used in potable hot and cold-water distribution, water service, and radiant heating and cooling systems in buildings of any type construction allowed under the applicable code. Uponor hePEX cross-linked polyethylene (PEX) tubing and fittings are used in radiant heating and cooling systems. The piping and fittings comply with Section 3.4 of the NSPC.

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email us at [info@uniform-es.org](mailto:info@uniform-es.org)