

Uponor

RADIANT HEATING SYSTEMS

**MULTI-LAYER
COMPOSITE TUBING**



Uponor's Multi-layer
Composite Tubing
(formerly MultiCor®)

Enhance Your Product Offering

Whether you're a seasoned PEX installer — or just starting out — you'll appreciate the versatility of Uponor's multi-layer composite tubing.

It's a great alternative for distribution piping as well as hydronic heating panels. You can even use it to chill ice-skating rinks.

The multi-layer composite tubing complements Uponor's high-quality and high-performing Wirsbo hePEX™ plus and Wirsbo AQUAPEX® products. The interior aluminum tubing is sandwiched between two layers of PEX with a special adhesive bonding the layers together.

Use the Right Product with the Right Application

Choosing the right product for the right application can make all the difference — in your success, your reputation, your profitability and more importantly, your customer's satisfaction.

With its unique properties and stay-in-place feature, Uponor's multi-layer composite tubing is a popular choice to use instead of copper for distribution piping. Connecting to baseboards, manifolds, air handlers and fan coils has never been easier. The aluminum inside the tubing makes it more rigid, resulting in a seamless, straighter run.

"Uponor's multi-layer composite tubing is fast to install, looks good and stays in place. It is now my first choice for slab and high temperature applications."

Jeffrey Young
Climatec Advanced Technologies
Eaton, Pa.

Not only does it look professional, Uponor multi-layer composite tubing saves installation time because joints are unnecessary. Easy to manipulate, you simply bend the tubing and it

stays in place. Because of this ability, you can install it single-handedly. In fact, many contractors prefer Uponor multi-layer composite tubing for radiant heating or snow and ice melting applications when working alone.

The versatility of this tubing also extends into chilled-water applications. Uponor multi-layer composite tubing can carry a brine solution or a water-and-glycol mixture to chill the slab in an ice-skating arena. Whether used in heating or cooling, Uponor multi-layer composite tubing has the range to support your application needs.



"We've found it to be the ideal product for distribution piping to radiators and manifolds because there are no joints and it's easy to install. In fact, we've converted about 90% of our distribution piping to Uponor multi-layer composite tubing."

Paul Pollets
Advanced Radiant Technology
Seattle, Wash.

Distribution Piping

A preferred alternative to copper, Uponor multi-layer composite tubing is suitable for a variety of distribution hookups, including:

- Baseboards
- Radiators
- Air Handlers
- Manifolds
- Fan Coils

Heating Panels

Uponor multi-layer composite tubing is designed for use in closed-loop radiant and snow and ice melting heating systems up to 200°F. Because it offers 100% oxygen diffusion, it allows ferrous components in heating panel applications.

- Radiant Floors
- Greenhouses
- Snow and Ice Melting (including stairs)

Benefits You've Come to Know and Trust

Uponor multi-layer composite tubing features many of the same benefits you've come to know and trust with other Uponor products. It's easy to install, resistant to corrosion and aggressive water and soil, and because of its low thermal expansion rate, it's quiet and stays straighter. And because there are no joints, soldering and flux are not required — creating a safe and clean working environment.

"Uponor multi-layer composite tubing doesn't make noise when expanding or contracting as it heats up and cools down."

Dan Foley
Foley Mechanical
Alexandria, Va.

The white tubing matches the wall panel radiator trim without needing to cover the supply pipes. The solid tubing also hides any discolored fluid solution. Installing Uponor multi-layer composite tubing results in a high-quality and professional-looking system.

Contractor Recommended

Contractors appreciate its ease of installation, labor savings and durability. So pleased they're even recommending it to other contractors.

"I've shown Uponor multi-layer composite tubing to some plumber friends. They like that it stays in place."

Jeffrey Young
Climatec Advanced Technologies
Eaton, Pa.

"I absolutely recommend it to other contractors for the following reasons: ease of installation, reduced leaks, no soldering or fire hazards, labor savings and longevity of projects."

Paul Pollets
Advanced Radiant Technology
Seattle, Wash.

"No matter how much copper experience you have, you're going to have some leaks. Uponor multi-layer composite tubing is virtually leak-proof."

Dan Foley
Foley Mechanical
Alexandria, Va.

Standards, Listings, Ratings, Dimensions and Coil Lengths

Uponor multi-layer composite tubing meets a number of standards, listings and ratings. It's also available in a number of dimensions and easy-to-roll-out coils for different application needs.

It is manufactured to ASTM F1281 and certified by NSF International.

The tubing comes with Standard-grade Hydrostatic Pressure Ratings in accordance with the temperatures and pressures listed in Section X1 of ASTM F1281. It is tested in accordance with Plastic Pipe Institute (PPI) TR-3 and listed in PPI TR-4.

Standard-grade Hydrostatic Ratings

- 200°F at 100 psi
- 140° at 160 psi
- 180°F at 125 psi
- 73° at 200 psi

Listings

- ICBO Evaluation Service
— ER Number 5298
- Southern Building Code Congress International (SBCCI) Standard Plumbing Code (PST and ESI Report Number 9829)

Dimensions

- ½" nominal inside diameter (contains 0.98 gallons per 100' of tubing)
- ⅝" nominal inside diameter (contains 1.60 gallons per 100' of tubing)
- ¾" nominal inside diameter (contains 2.56 gallons per 100' of tubing)
- 1" nominal inside diameter (contains 4.20 gallons per 100' of tubing)

Coil Lengths

Uponor multi-layer composite tubing is available in a range of coil lengths.

Dimension	Coil Size
½" and ⅝"	300' and 1,000'
¾"	100', 300' and 500'
1"	100' and 300'

Features and Benefits

- Stays in Place
- Low Thermal Expansion Rate
- Quiet
- Barrier Against Oxygen Diffusion
- Corrosion Resistant
- Resistant to Aggressive Water and Soil
- Labor, Time and Cost Savings
- Ease of Installation
- Solid Guarantee
- No Soldering
- No Flux
- No Joints
- Polished and Professional Look
- White Exterior
- Affordable



Process Piping

Baseboard Connection

Snow and Ice Melting Stairs*

Snow and Ice Melting Slab

* Photo courtesy of Advanced Radiant Design, Stone Ridge, N.Y.

Uponor, Inc.
5925 148th Street West
Apple Valley, MN 55124

Tel: (800) 321-4739
Fax: (952) 891-1409
Web: www.uponor-usa.com

