

Cross-linked EPDM  
Composite Tubing  
with Aramid Cord and  
Aluminum O2 Barrier

# Onix™

FOR  
**Hydronic  
Radiant Heating  
& Snowmelting  
Systems**

Made in the  
USA

## Onix with AlumaShield compared with EVOH barrier PEX.

### Tubing properties

	<b>Onix</b>
Flexibility	flexible even in sub-freezing temperatures
Abrasion	highly abrasion resistant
Sunlight	not affected by exposure
Kinking	not damaged by kinking
Temperature	functional from -35°F to +200°F
Flame resistance	highly flame resistant
Stress cracking	not affected by stress cracking

### barrier PEX

	<b>barrier PEX</b>
Flexibility	larger bend radius, stiff below 40°F
Abrasion	susceptible to abrasion from metal, fasteners or sharp fill
Sunlight	damaged if exposed for more than a few weeks
Kinking	must be replaced or repaired if kinked
Temperature	easily damaged in cold, not rated for service above 180°F-200°F
Flame resistance	burns easily
Stress cracking	damaged by physical impact and other stress

### Barrier properties

	<b>AlumaShield™</b>
Moisture	not damaged by moisture
Heat	not damaged by heat
Sunlight	not damaged by UV radiation

### EVOH

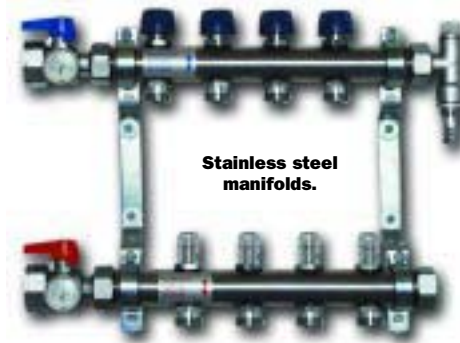
	<b>EVOH</b>
Moisture	performance lessened by exposure to moisture
Heat	permanent performance loss by 160°F+ exposure
Sunlight	damaged by more than a few weeks of sunlight

### Available sizes:

Onix is available in the following nominal I.D.: 3/8", 1/2", 5/8", 3/4", and 1".

### Onix Manifolds:

Watts Radiant offers a wide range of manifolds for Onix. Manifold accessories include unions, isolation valves, temperature gauges, vent/purge assemblies, and visual flow indicators. Additional specifications can be found on the Watts Radiant Onix Submittal or in the Watts Radiant product catalog.



Stainless steel manifolds.



CustomCut manifolds.



Cast brass manifolds.



Swedged manifolds.



Standard All Brass manifolds.

### Always in Control.

Watts Radiant HydroControls™ are custom built for hydronic systems.



Watts Radiant HydroControls™ provide safe and efficient operational control of any hydronic heating or snowmelting system. Whether a system has one, five, or thirty zones, our engineers design panels that deliver comfort and peace of mind. HydroControls are in operation across the United States and Canada. HydroControls are panel or skid-mounted; 1" through 6" piping.

Available at: **631-240-9173**

**PEXHEAT.COM**

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Springfield, MO 65802  
(417) 864-6108**

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See our Product Catalog online at: [www.wattsradiant.com](http://www.wattsradiant.com)



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PEXHEAT.COM

# Watts Radiant

Floor Heating & Snowmelting  
A Watts Industries Company

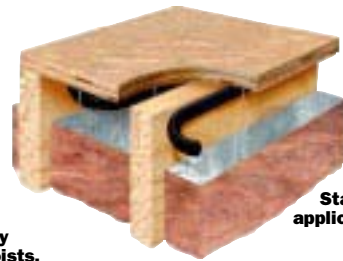
# Onix

Onix is the fastest, friendliest, and safest radiant pipe you can specify or install. Onix installs with less labor than any other radiant piping, and takes jobsite abuse better than any other radiant pipe too.

With many millions of feet in service, Onix employs patented features not found in other hydronic heating pipe.

You'll find the features and benefits impressive:

- EASY TO INSTALL AT ANY TEMPERATURE**
- NOT DAMAGED BY SUNLIGHT**
- FLAME AND FREEZE RESISTANT**
- THE BEST PRODUCT FOR STAPLE-UP**
- CRUSH/ABRASION RESISTANT**
- ALUMINUM O<sub>2</sub> BARRIER**
- FREEZE RESISTANT**
- 25-YEAR WARRANTY**



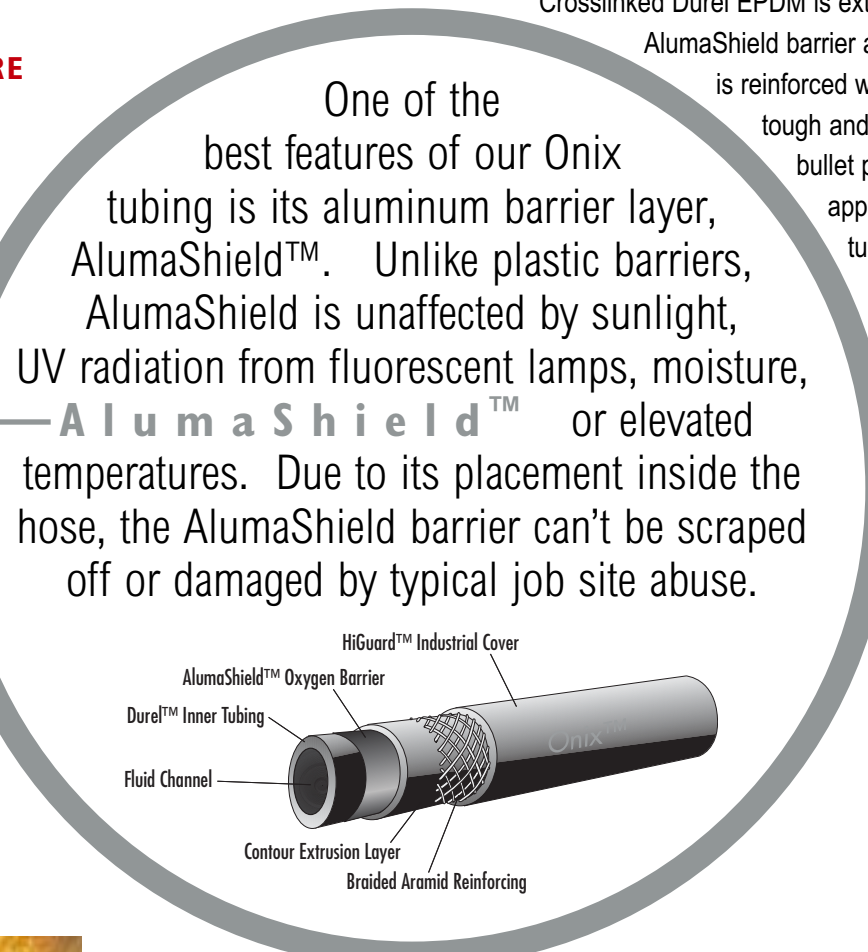
Typical Staple-up™ application.

Onix pulls easily through floor joists.



Onix is easy to work with in Staple-up jobs because of its flexibility. It's great for retrofitting, too.

Onix being installed in multiple truck servicing bays.



### What makes Onix so well suited for radiant heating and snow melting?

Crosslinked Durel EPDM is extruded into a tube and wrapped with an AlumaShield barrier and a second layer of EPDM. This composite tube is reinforced with 1000 denier aramid cord, the same incredibly tough and heat resistant material used to make fire and bullet proof shields. A final outer jacket of EPDM is applied. The result—an extremely durable, flexible tubing formed of five heat and age resistant materials, proven in tens of thousands of installations over the years.

Onix is the product that can be installed with lifelong confidence—in blazing heat and sunlight, or in Arctic frost and shadows. Used for commercial snowmelting, space heating, residential staple up and supply/return lines—you'll find Onix installed in thousands of quality projects every year.

Onix is just as flexible in cold weather as in hot, so you can install it year-round.



Residential system in action.



Typical snowmelting application.

