

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

Onix™

FOR
**Hydronic
Radiant Heating
& Snowmelting
Systems**



Onix with AlumaShield Compared with EVOH Barrier PEX

Tubing Properties

	Onix	Barrier PEX
Flexibility	flexible even in subfreezing temperatures	larger bend radius, stiff below 40°F
Abrasion	highly abrasion resistant	susceptible to abrasion from metal, fasteners or sharp fill
Sunlight	not affected by exposure	damaged if exposed for more than a few weeks
Kinking	not damaged by kinking	must be replaced or repaired if kinked
Temperature	functional from -35°F to +180°F	easily damaged in cold
Flame resistance	highly flame resistant	burns easily
Stress cracking	not affected by stress cracking	damaged by physical impact and other stress

Barrier Properties

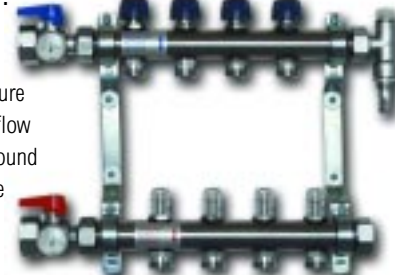
	AlumaShield™	EVOH
Moisture	not damaged by moisture	performance lessened by exposure to moisture
Heat	not damaged by heat	permanent performance loss by 160°F+ exposure
Sunlight	not damaged by UV radiation	damaged by more than a few weeks of sunlight

Available Sizes:

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

Onix Manifolds:

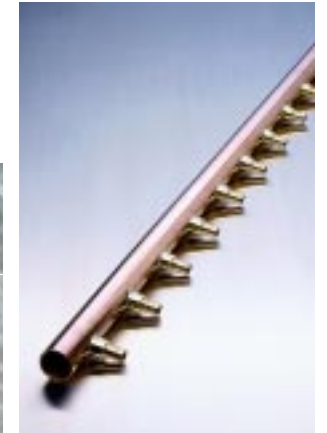
Watts Radiant offers a wide range of manifolds for Onix. Manifold accessories include unions, isolation valves, temperature gauges, vent-and-purge assemblies, and flow meters. Additional specifications can be found in the Watts Radiant Onix Submittal or the Watts Radiant full-line Product Catalog.



Stainless Steel Manifolds



Swedged Manifolds



CustomCut™ Manifolds

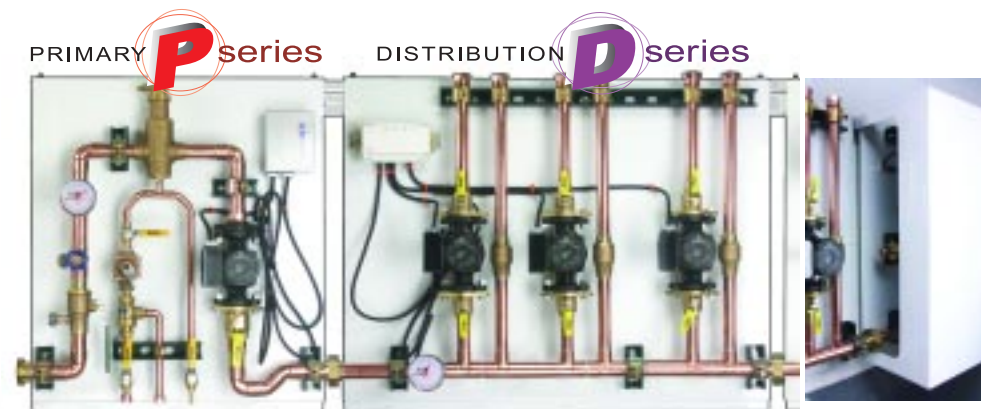
Introducing Hydronex™ Modular Control Panels

Our new Hydronex™ Panels come in three main configurations: P-Series, D-Series, and Z-Series. The 35 standard models can be customized, with control and circulator options available. P-Series and D-Series Panels feature the Rail Mount enclosure while Z-Series Panels feature a Box Mount enclosure.

- Cost-effective
- Fast delivery
- Quick installation
- 35 standard models; more with custom options
- Linked together or stand-alone
- Contractor-friendly
- Three circulator brand options



ZONE Z series



PRIMARY P series

DISTRIBUTION D series

To learn more about Hydronex panels call **800-276-2419**, or go to www.wattsradiant.com and click on the Hydronex link.



Protective pin-mounted cover included.

Onix is tested to relevant portions of several ASTM standards, carries the BOCA certification mark as approved by BOCA research report number 95-47.1, and carries the UPC mark as approved by the International Association of Plumbing and Mechanical Officials. Watts Radiant is a charter member of the Radiant Panel Association.



A subsidiary of Watts Water Technologies, Inc.

NYSE: WTS

4500 E. Progress Place Springfield, MO 65803-8816

USA & Canada: **800-276-2419** Phone: **417-864-6108** Fax: **417-864-8161**

See our Radiant Catalog online at: www.wattsradiant.com

Watts Radiant

Floor Heating & Snowmelting

A subsidiary of Watts Water Technologies, Inc.



Onix



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 O₂ BARRIER**
- FREEZE RESISTANT**
- 25-YEAR WARRANTY**



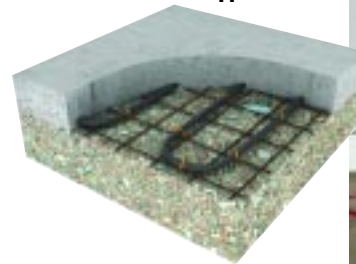
Typical Staple-up application.

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.



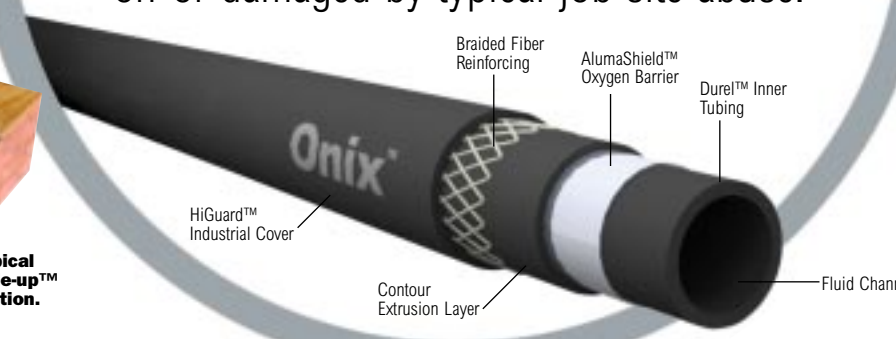
Typical snowmelting application.

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.

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.

One of the best features of our Onix tubing is its aluminum barrier layer, AlumaShield™. Unlike plastic barriers, AlumaShield is unaffected by sunlight, UV radiation from fluorescent lamps, moisture, or elevated temperatures. Due to its placement inside the hose, the AlumaShield barrier can't be scraped off or damaged by typical job site abuse.



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.

