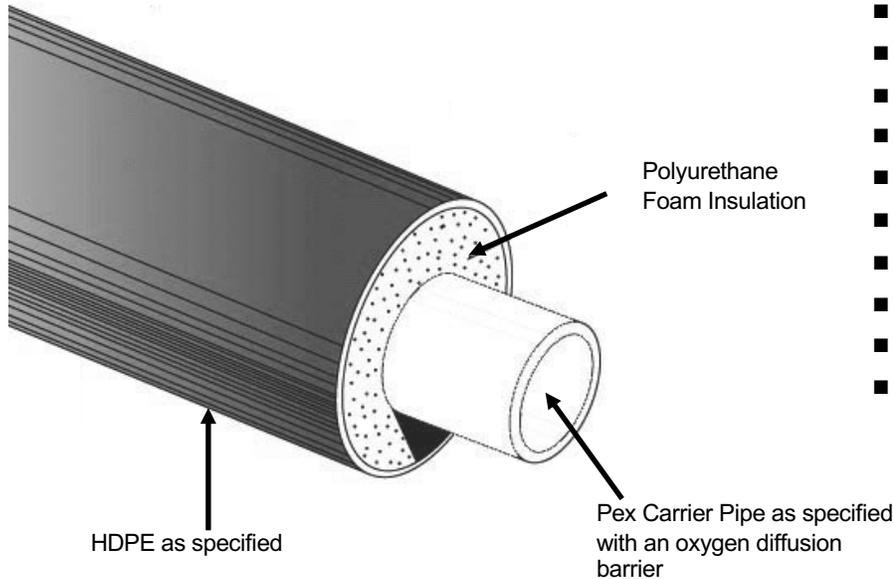


# Rovanco® Rhinoflex Pex Piping System

For Below Ground or Above Ground Applications

## NSF Approved for Potable Water in Continuous Coils



- Domestic Hot Water
- Domestic Cold Water
- Heating Hot Water
- Brine Lines
- Glycol Mixtures
- Condenser Water
- Process Piping Applications
- Snow Melt
- Warm Floor Heating Mains
- Radiant Heating Systems
- Low Temp Condensate – 204°F maximum

## Pex (Cross linked polyethylene) Piping System for underground and above ground Chilled Water, Hot Water, Brine, and Process Piping Applications.

Rovanco's Pex System is manufactured using Pex-A products, the highest quality of cross linked polyethylene pipe and tube available. It is designed for piping systems below ground or above ground, in basements, crawl spaces, attics or on roof tops. This versatile product is suitable for both hot and cold applications. High-quality polyurethane foam insulation combined with a durable watertight jacket supplied in coils up to 2,500 feet long with the polyethylene jacket, results in an economical, high-quality system.

Rovanco's Pex System comes complete with couplings and fittings that are listed by ASTM for use in potable water systems. All fitting and coupling insulation materials required for the installation are available from Rovanco.

After testing, all field joints and changes in direction are insulated and sealed watertight.

Rovanco's Pex pipe is available with an O<sub>2</sub> diffusion barrier.

The barrier pipe meets the requirements of ASTM F876, F877, CSA B137.5 and PP1TR-3. It is NSF approved for Potable Water use to standard 14/61 and NFXP171 and ASTM 2023 for chlorine resistance. The Pex carrier pipe is rated for continuous operation at 160 PSI @ 73.4°F, 100 PSI @ 180°F, and 80 PSI @ 200°F.

To find out more about Rovanco's Pex System call Rovanco at (815) 741-6700 or fax (815) 741-4229, or visit our website at [www.rovanco.com](http://www.rovanco.com).

*This is a generic product datasheet and is not intended for submittal use.*

# SPECIFICATION FOR Rovanco® Rhinoflex Pex Piping SYSTEM

## Pex (Cross linked polyethylene) Piping System for underground and above ground Chilled Water, Hot Water, Brine, and Process Piping Applications.

### Carrier Pipe:

Pex A (cross linked polyethylene) conforming to ASTM F876 and F877 and NSF approved for Potable water. Metric pipes conforming to DIN 16892 and 16893.

Nominal Carrier Pipe Size		Nominal Insul. Thickness	PE Jacket OD	Jacket Thickness	Bending Radius
Inches	MM				
¾"		1"	3.07"	0.08	2'6"
1"		.91"	3.07"	0.08	2'7"
1.25"		0.80"	3.07"	0.08	2'8"
1.5"		1"	3.66"	0.09	2'10"
2"		1.13"	4.45"	0.09	3"
2.5"	75	1.34"	5.63"	0.12	3'2"
3"	90	1.44"	6.42"	0.13	3'7"
4"	110	1.05"	6.42"	0.13	4"

### Insulation:

Insulation shall be a polyurethane foam injected with one shot into the annular space between carrier pipe and jacket. Insulation shall be rigid, minimum 90% closed cell polyurethane with a minimum 2.0 lbs per foot<sup>3</sup> density, compressive strength of 30 psi @ 75°F and a thermal conductivity K factor no higher than 0.180 @ 75°F per ASTM C-518. Maximum operating temperature of urethane foam shall not exceed 250°F. Minimum insulation thickness shall be in accordance with Table 1.

### Jacketing:

HDPE jacket conforming to ASTM D-1248 and D3350.

All High Density Polyethylene jackets are a minimum of 60 mils thick

Minimum insulation thickness shall be in accordance with Table 1.

Pipe is available in coils up to 2,500 feet long with a polyethylene jacket.

**Table 1:**

Nominal Pipe Size		Actual OD
Inches	MM	
¾"		0.875"
1"		1.125"
1.25"		1.375"
1.5"		1.625"
2"		2.125"
2.5"	75	2.953"
3"	90	3.543"
4"	110	4.331"

### Joining Method:

Pex pipe is joined with compression couplings, or brass Press-Fit fittings conforming to ASTM D-1869. Coupling joints can be field insulated.

Fittings can be insulated or uninsulated depending on owners preference

### Fittings:

All fittings are compression type or brass Press-Fit with a positive seal that meets the requirements of ASTM and NSF.

The Brass Press-Fit fittings are certified to ASTM F 1807, the compression nut and sleeve fittings are certified to ASTM F 877, F2080 and CSAB137.5

### Anchors:

Pex pipe should be joined to other types of systems with flanges, couplings, threaded adaptors, or soldered copper fittings. All other systems should be anchored within five feet of connection point to eliminate any thrust, stress or torque from being transferred to the Pex pipe.

### Backfill:

All backfill materials should be tamped compactly in place so as to assure a stable surface. No rock should be used in the first foot of backfill.

### Approved Vendors:

Pre-Insulated Pex Piping System by Rovanco®, Joliet, Illinois. Any alternate supplier must be ISO Certified and submit their technical data to the engineer ten days prior to bid date to be approved in writing as an equal.

\*Other types of Pre-Insulated Pipe are also available from Rovanco®.

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## Contact Rovanco® for the name of your local Representative

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