Ecoflex® Thermal Single

Submittal Information
Revision J: Jan. 6, 2015

Project Information

Job Name:

Location: Part No. Ordered:

Engineer: Date Submitted:

Contractor: Submitted By:

Manufacturer's Representative: Approved By:

Technical Data

Service Pipe:	Crosslinked polyethylene (PEX-a) SDR-9 Engel-method tubing that conforms to German DIN 4726; smoothness value of 0.02 mil; NSF-certified
Insulation:	Multilayered, closed-cell, PEX-foam insulation with a thermal conductivity of 0.26 BTU in./sq. ft./hour/°F; vapor permeability of 0.1g/100 sq. in./day
Jacket:	Corrugated seamless high-density polyethylene (HDPE); UV-protected
Hydrostatic Ratings:	200°F (93°C) at 80 psi (551 kPa or 5.51 bar) 180°F (82°C) at 100 psi (689 kPa or 6.89 bar) 73.4°F (23°C) at 160 psi (1102 kPa or 11.02 bar)

Product Information and Application Use

Uponor's Ecoflex® Thermal Single is a pre-insulated pipe for buried or aboveground commercial and residential hydronic radiant heating and cooling applications. Service pipes are made from durable Engel-method crosslinked polyethylene (PEX-a) tubing with multilayer PEX-foam insulation and covered by a corrugated, waterproof HDPE jacket. Use with ProPEX® Fittings or WIPEX™ dezincification-resistant (DZR) brass compression fittings.[1]

✓	Description	Part Number	Service Pipe O.D.	Service Pipe I.D	Foam Thickness	Insulation Value[2]	Bend Radius	Weight (lb./ft.)
☐	¾" Thermal Single with 2.7" Jacket, 1,000-ft. coil	5012775	0.875"	0.671"	0.71"	R-3.43	6"	0.35 lbs.
☐	1" Thermal Single with 2.7" Jacket, 1,000-ft. coil	5012710	1.125"	0.862"	0.59"	R-2.71	8"	0.38 lbs.
☐	1" Thermal Single with 5.5" Jacket, 600-ft. coil	5015510	1.125"	0.862"	1.85"	R-10.30	10"	0.75 lbs.
☐	1¼" Thermal Single with 5.5" Jacket, 500-ft. coil	5015513	1.375"	1.054"	1.73"	R-9.07	12"	0.85 lbs.
☐	1½" Thermal Single with 6.9" Jacket, 300-ft. coil	5016915	1.625"	1.244"	2.13"	R-11.26	16"	1.40 lbs.
☐	2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016920	2.125"	1.629"	1.93"	R-9.50	18"	1.80 lbs.
☐	2½" Thermal Single with 6.9" Jacket, 300-ft. coil	5016925	2.625"	2.011"	1.65"	R-7.17	30"	1.97 lbs.
☐	3" Thermal Single with 7.9" Jacket, 300-ft. coil	5017930	3.125"	2.398"	1.93"	R-8.96	32"	2.80 lbs.
☐	3½" Thermal Single with 7.9" Jacket, 300-ft. coil	5017935	3.625"	2.784"	1.65"	R-7.48	44"	2.98 lbs.
☐	4" Thermal Single with 7.9" Jacket, 300-ft. coil	5017940	4.125"	3.169"	1.42"	R-6.13	48"	3.70 lbs.

Installation

Install Ecoflex Thermal Single pre-insulated pipe in buried or aboveground hydronic radiant heating and cooling applications. Use Uponor ProPEX or WIPEX DZR brass compression fittings. Ecoflex End Caps are required on all exposed ends of Ecoflex pipes to avoid ground water contamination. For more information, refer to the Uponor Pre-insulated Pipe Systems Design and Installation Manual.

Standards

ASTM F876, F877 and F1960; CSA B137.5; NSF/ANSI 14, NSF/ANSI 61

Codes

N/A

Listings

cNSFus-rfh, cNSFus-pw

Related Applications

Pre-insulated Pipe Systems
Radiant Heating and Cooling Systems
Snow and Ice Melting Systems
Permafrost Prevention Systems
Turf Conditioning Systems

Contact Information

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[1] ProPEX® is a registered trademark of Uponor, Inc. ProPEX™ is a trademark of Uponor Ltd.
[2] R-value is normalized based on the nominal foam thickness for a circular shape.