ASTM Ecoflex® Thermal Twin

Submittal Information
Revision G: July 14, 2010

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 ASTM Ecoflex® Thermal Twin is a pre-insulated pipe system 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, protected by multilayer PEX-foam insulation and covered by a corrugated, waterproof HDPE jacket. Use with Uponor 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	Bend Radius	Weight (lbs./ft.)
☐	1" Thermal Twin with 6.9" Jacket, 600-ft. coil	5026910	1.125"	0.862"	1.54"	R-5.70	20"	1.30 lbs.
☐	1¼" Thermal Twin with 6.9" Jacket, 500-ft. coil	5026913	1.375"	1.054"	1.34"	R-4.96	28"	1.40 lbs.
☐	1½" Thermal Twin with 6.9" Jacket 300-ft. coil	5026915	1.625"	1.244"	1.06"	R-3.93	32"	1.55 lbs.
☐	2" Thermal Twin with 7.9" Jacket, 300-ft. coil	5027920	2.125"	1.629"	1.06"	R-3.93	40"	2.68 lbs.
☐	2½" Thermal Twin with 7.9" Jacket, 300-ft. coil	5027925	2.625"	2.011"	0.59"	R-2.19	48"	3.40 lbs.

Installation

Install Ecoflex Thermal Twin pre-insulated pipe in buried or aboveground hydronic radiant heating and cooling applications. 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 Standard 14 (NSF-rfh)

Codes

N/A

Listings

NSF/ANSI 14-certified

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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