Ecoflex thermal single coils

Project information

Job name:	Location:
Engineer:	Date submitted:
Contractor:	Submitted by:
Manufacturer's representative:	Approved by:

Technical data

Material	PEX
Subcomponent Material	Material Jacket: Corrugated, seamless, high-density polyethylene (HDPE); UV-protected
Temp/pressure ratings	73 °F (23 °C) at 160 psi (11 bar) 180 °F (82 °C) at 100 psi (6.9 bar) 200 °F (93 °C) at 80 psi (5.5 bar)



Product information and application use

Uponor's Ecoflex® Thermal Single is a pre-insulated pipe for buried or aboveground commercial and residential hydronic 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

Part name	Part no.	Inner diameter coil [inch]	Outer diameter coil [inch]	Coil width [inch]	Inner diameter pipe [inch]	Outer diameter pipe [inch]	R value	Inner diameter Service Pipe [in]	Outer diameter Service Pipe [in]	Weight per UOM [lbs/UOM]
3/4" Thermal Single with 2.7" Jacket, 1,000-ft. coil	5012775	42.5	75	32	0.671	2.7	9.3	0.671	0.875	0.35
1" Thermal Single with 2.7" Jacket, 1,000-ft. coil	5012710	42.5	75	32	0.862	2.7	7.4	0.862	1.125	0.38
1" Thermal Single with 5.5" Jacket, 600-ft. coil	5015510	44	83	55	0.862	5.5	12.3	0.862	1.125	0.8
1 1/4" Thermal Single with 5.5" Jacket, 500-ft. coil	5015513	44	83	46	1.054	5.5	10.7	1.054	1.375	0.8
1 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016915	44	78	49	1.244	6.9	10.8	1.244	1.625	1.46
2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016920	44	78	49	1.629	6.9	8.9	1.629	2.125	1.75
2 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016925	44	78	49	2.011	6.9	7.2	2.011	2.625	1.97
3" Thermal Single with 7.9" Jacket, 300-ft. coil	5017930	44	84	53	2.398	7.9	7	2.398	3.125	2.8
4" Thermal Single with 7.9" Jacket, 300-ft. coil	5017940	46	86	52	3.169	7.9	4.8	3.169	4.125	3.7

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Part name	Part no.	Codes	Standards	Listings
Ecoflex thermal single coils	All	UPC|IMC|IPC|UMC|NSPC|NPC of Canada	ASTM F1960|NSF/ANSI 14|NSF/ANSI/CAN 61	cNSFus-pw|U.P.Code|cNSFus-rfh
In addition, the following parts have additional codes, standards, or listings:				
3/4" Thermal Single with 2.7" Jacket, 1,000-ft. coil	5012775		CSA B137.5	
1" Thermal Single with 2.7" Jacket, 1,000-ft. coil	5012710		ASTM F876|ASTM F877	
1" Thermal Single with 5.5" Jacket, 600-ft. coil	5015510		ASTM F876|ASTM F877	
1 1/4" Thermal Single with 5.5" Jacket, 500-ft. coil	5015513		ASTM F876|ASTM F877	
1 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016915		ASTM F876|ASTM F877	
2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016920		ASTM F876|ASTM F877	
2 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016925		CSA B137.5|ASTM F876|ASTM F877	
3" Thermal Single with 7.9" Jacket, 300-ft. coil	5017930		CSA B137.5|ASTM F876|ASTM F877	
4" Thermal Single with 7.9" Jacket, 300-ft. coil	5017940		CSA B137.5|ASTM F876|ASTM F877	

Installation

Install Ecoflex Thermal Single pre-insulated pipe in buried or aboveground hydronic 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.

Related applications

Pre-Insulated Pipe Systems

Hydronic Heating and Cooling Systems

Radiant Heating and Cooling Systems

Permafrost Prevention Systems

Turf Conditioning Systems

Footnotes

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Contact information

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