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 [mm]	Outer diameter coil [mm]	Inner diameter pipe [mm]	Outer diameter pipe [mm]	R value	Weight per UOM [kg/UOM]
	3/4" Thermal Single with 2.7" Jacket, 1,000-ft. coil	5012775	68.58	304.8	17.04	22.22	9.3	0.159
	1" Thermal Single with 2.7" Jacket, 1,000-ft. coil	5012710	68.58	304.8	21.9	28.58	7.4	0.172
✔	1" Thermal Single with 5.5" Jacket, 600-ft. coil	5015510	139.7	304.8	21.9	28.58	12.3	0.34
	1 1/4" Thermal Single with 5.5" Jacket, 500-ft. coil	5015513	139.7	304.8	26.77	34.92	10.7	0.386
	1 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016915	175.26	304.8	31.6	41.28	10.8	0.635
	2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016920	175.26	304.8	41.38	53.98	8.9	0.816
	2 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016925	175.26	304.8	51.08	66.68	7.2	0.894
	3" Thermal Single with 7.9" Jacket, 300-ft. coil	5017930	200.66	304.8	60.91	79.38	7	1.27
	3 1/2" Thermal Single with 7.9" Jacket, 300-ft. coil	5017935	200.66	304.8	70.72	92.08	-	1.352
	4" Thermal Single with 7.9" Jacket, 300-ft. coil	5017940	200.66	304.8	80.5	104.78	4.8	1.678

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Part name	Part no.	Codes	Standards	Listings
Ecoflex thermal single coils	All	UPC|IPC|NPC of Canada|UMC|NSPC|IMC	ASTM F1960	cNSFus-rfh|cNSFus-pw|U.P.Code
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|NSF/ANSI/CAN 61|NSF/ANSI 14	
1" Thermal Single with 2.7" Jacket, 1,000-ft. coil	5012710		ASTM F877|NSF/ANSI/CAN 61|ASTM F876|NSF/ANSI 14	
1" Thermal Single with 5.5" Jacket, 600-ft. coil	5015510		ASTM F877|NSF/ANSI/CAN 61|ASTM F876|NSF/ANSI 14	
1 1/4" Thermal Single with 5.5" Jacket, 500-ft. coil	5015513		ASTM F877|NSF/ANSI/CAN 61|ASTM F876|NSF/ANSI 14	
1 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016915		ASTM F877|NSF/ANSI/CAN 61|ASTM F876|NSF/ANSI 14	
2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016920		ASTM F877|NSF/ANSI/CAN 61|ASTM F876|NSF/ANSI 14	
2 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016925		ASTM F877|CSA B137.5|NSF/ANSI/CAN 61|ASTM F876|NSF/ANSI 14	
3" Thermal Single with 7.9" Jacket, 300-ft. coil	5017930		ASTM F877|CSA B137.5|NSF/ANSI/CAN 61|ASTM F876|NSF/ANSI 14	
3 1/2" Thermal Single with 7.9" Jacket, 300-ft. coil	5017935		ASTM F877|CSA B137.5|ASTM F876|NSF-61|ASTM F876|NSF-14	
4" Thermal Single with 7.9" Jacket, 300-ft. coil	5017940		ASTM F877|CSA B137.5|NSF/ANSI/CAN 61|ASTM F876|NSF/ANSI 14	

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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