

Ecoflex thermal single coils

Project Information

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

Technical data

Material	PEX
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]	Subcomponent Material	R value	Inner diameter Service Pipe [mm]	Outer diameter Service Pipe [mm]	Weight per UOM [kg/UOM]
3/4" Thermal Single with 2.7" Jacket, 1,000-ft. coil	5012775	1079.5	1905	17.04	68.58	Material Jacket: Corrugated, seamless, high-density polyethylene (HDPE); UV-protected	9.3	17.04	22.22	0.159
1" Thermal Single with 2.7" Jacket, 1,000-ft. coil	5012710	1079.5	1905	21.9	68.58	Material Jacket: Corrugated, seamless, high-density polyethylene (HDPE); UV-protected	7.4	21.9	28.58	0.172
1" Thermal Single with 5.5" Jacket, 600-ft. coil	5015510	1117.6	2108.2	21.9	139.7	Material Jacket: Corrugated, seamless, high-density polyethylene (HDPE); UV-protected	12.3	21.9	28.58	0.363
1 1/4" Thermal Single with 5.5" Jacket, 500-ft. coil	5015513	1117.6	2108.2	26.77	139.7	Material Jacket: Corrugated, seamless, high-density polyethylene (HDPE); UV-protected	10.7	26.77	34.92	0.363
1 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016915	1117.6	1981.2	31.6	175.26	Material Jacket: Corrugated, seamless, high-density polyethylene (HDPE); UV-protected	10.8	31.6	41.28	0.662
2" Thermal Single with 6.9" Jacket, 300-ft. coil	5016920	1117.6	1981.2	41.38	175.26	Material Jacket: Corrugated, seamless, high-density polyethylene (HDPE); UV-protected	8.9	41.38	53.98	0.794
2 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil	501692	1117.6	1981.2	51.08	175.26	Material Jacket: Corrugated,	7.2	51.08	66.68	0.894

	5						seamless, high-density polyethylene (HDPE); UV-protected				
3" Thermal Single with 7.9" Jacket, 300-ft. coil	5017930	1117.6	2133.6	60.91	200.66		Material Jacket: Corrugated, seamless, high-density polyethylene (HDPE); UV-protected	7	60.91	79.38	1.27
3 1/2" Thermal Single with 7.9" Jacket, 300-ft. coil	5017935	200.66	304.8	70.72	92.08		Material Jacket: Corrugated seamless high-density polyethylene (HDPE); UV-protected	-	-	-	1.352
4" Thermal Single with 7.9" Jacket, 300-ft. coil	5017940	1168.4	2184.4	80.5	200.66		Material Jacket: Corrugated, seamless, high-density polyethylene (HDPE); UV-protected	4.8	80.5	104.78	1.678

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

Installation	Related applications
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.	Pre-Insulated Pipe Systems
	Hydronic Heating and Cooling Systems
	Radiant Heating and Cooling Systems
	Permafrost Prevention Systems
	Turf Conditioning Systems

Footnotes	Contact information
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