# 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)<br>180 °F (82 °C) at 100 psi (6.9 bar)<br>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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