

# 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 | Weight per UOM [lbs/UOM] |
|------------------------------------------------------|----------|----------------------------|----------------------------|-------------------|----------------------------|----------------------------|---------|--------------------------|
| 3/4" Thermal Single with 2.7" Jacket, 1,000-ft. coil | 5012775  | 2.7                        | 12                         | 2.7               | 0.671                      | 0.875                      | 9.3     | 0.35                     |
| 1" Thermal Single with 2.7" Jacket, 1,000-ft. coil   | 5012710  | 2.7                        | 12                         | 2.7               | 0.862                      | 1.125                      | 7.4     | 0.38                     |
| 1" Thermal Single with 5.5" Jacket, 600-ft. coil     | 5015510  | 5.5                        | 12                         | 5.5               | 0.862                      | 1.125                      | 12.3    | 0.75                     |
| 1 1/4" Thermal Single with 5.5" Jacket, 500-ft. coil | 5015513  | 5.5                        | 12                         | 5.5               | 1.054                      | 1.375                      | 10.7    | 0.85                     |
| 1 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil | 5016915  | 6.9                        | 12                         | 6.9               | 1.244                      | 1.625                      | 10.8    | 1.4                      |
| 2" Thermal Single with 6.9" Jacket, 300-ft. coil     | 5016920  | 6.9                        | 12                         | 6.9               | 1.629                      | 2.125                      | 8.9     | 1.8                      |
| 2 1/2" Thermal Single with 6.9" Jacket, 300-ft. coil | 5016925  | 6.9                        | 12                         | 6.9               | 2.011                      | 2.625                      | 7.2     | 1.97                     |
| 3" Thermal Single with 7.9" Jacket, 300-ft. coil     | 5017930  | 7.9                        | 12                         | 7.9               | 2.398                      | 3.125                      | 7       | 2.8                      |
| 3 1/2" Thermal Single with 7.9" Jacket, 300-ft. coil | 5017935  | 7.9                        | 12                         | 7.9               | 2.784                      | 3.625                      | -       | 2.98                     |
| 4" Thermal Single with 7.9" Jacket, 300-ft. coil     | 5017940  | 7.9                        | 12                         | 7.9               | 3.169                      | 4.125                      | 4.8     | 3.7                      |

| Part name                                                                       | Part no. | Codes                                 | Standards                                                        | Listings                      |
|---------------------------------------------------------------------------------|----------|---------------------------------------|------------------------------------------------------------------|-------------------------------|
| Ecoflex thermal single coils                                                    | All      | UPC IPC NPC of<br>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,<br>1,000-ft. coil                         | 5012775  |                                       | CSA B137.5 NSF/ANSI/CAN<br>61 NSF/ANSI 14                        |                               |
| 1" Thermal Single with 2.7" Jacket,<br>1,000-ft. coil                           | 5012710  |                                       | ASTM F877 NSF/ANSI/CAN 61 ASTM<br>F876 NSF/ANSI 14               |                               |
| 1" Thermal Single with 5.5" Jacket,<br>600-ft. coil                             | 5015510  |                                       | ASTM F877 NSF/ANSI/CAN 61 ASTM<br>F876 NSF/ANSI 14               |                               |
| 1 1/4" Thermal Single with 5.5" Jacket,<br>500-ft. coil                         | 5015513  |                                       | ASTM F877 NSF/ANSI/CAN 61 ASTM<br>F876 NSF/ANSI 14               |                               |
| 1 1/2" Thermal Single with 6.9" Jacket,<br>300-ft. coil                         | 5016915  |                                       | ASTM F877 NSF/ANSI/CAN 61 ASTM<br>F876 NSF/ANSI 14               |                               |
| 2" Thermal Single with 6.9" Jacket,<br>300-ft. coil                             | 5016920  |                                       | ASTM F877 NSF/ANSI/CAN 61 ASTM<br>F876 NSF/ANSI 14               |                               |
| 2 1/2" Thermal Single with 6.9" Jacket,<br>300-ft. coil                         | 5016925  |                                       | ASTM F877 CSA<br>B137.5 NSF/ANSI/CAN 61 ASTM<br>F876 NSF/ANSI 14 |                               |
| 3" Thermal Single with 7.9" Jacket,<br>300-ft. coil                             | 5017930  |                                       | ASTM F877 CSA<br>B137.5 NSF/ANSI/CAN 61 ASTM<br>F876 NSF/ANSI 14 |                               |
| 3 1/2" Thermal Single with 7.9" Jacket,<br>300-ft. coil                         | 5017935  |                                       | ASTM F877 CSA B137.5 ASTM<br>F876 NSF-61 ASTM F876 NSF-14        |                               |
| 4" Thermal Single with 7.9" Jacket,<br>300-ft. coil                             | 5017940  |                                       | ASTM F877 CSA<br>B137.5 NSF/ANSI/CAN 61 ASTM<br>F876 NSF/ANSI 14 |                               |

| 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. | <ul style="list-style-type: none"> <li>Pre-Insulated Pipe Systems</li> <li>Hydronic Heating and Cooling Systems</li> <li>Radiant Heating and Cooling Systems</li> <li>Permafrost Prevention Systems</li> <li>Turf Conditioning Systems</li> </ul> |

| Footnotes | Contact information                                                                                                                                                                                                       |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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