

## Pre-insulated Wirsbo hePEX™ (ASHRAE 90.1-2013)

Submittal Information

Revision A: June 19, 2015

### Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

Submitted By:

Manufacturer's Representative:

Approved By:

### Technical Data

Service Pipe:	Crosslinked polyethylene PEX-a Engel method pipe
Insulation:	Polyethylene foam
Thermal Conductivity:	0.25 Btu.in/h/sq.ft/°F
Operating Condition Limits: (hydrostatic ratings)	200°F at 80 psi (93°C at 5.5 bar) 180°F at 100 psi (82°C at 6.9 bar) 73.4°F at 160 psi (23°C at 11 bar)
Linear Expansion Rate:	1.1"/10°F per 100' (27.94mm/5.56°C per 30.48m)



### Product Information and Application Use

Pre-insulated Wirsbo hePEX™ features oxygen-barrier PEX pipe encased in polyethylene-foam insulation to meet ASHRAE 90.1-2013 energy-code requirements for hydronic piping and radiant heating/cooling applications. The piping is approved for direct burial in soil provided it is not exposed to groundwater. Uponor recommends adding ½" of insulation to accommodate for foam compression in direct-burial applications.

Description	Part No.	O.D.	Heat Loss (at 70°ΔT)	R-Value	Coil Size (O.D. x Width)	Weight (lb./coil)
½" Pre-insulated Wirsbo hePEX with ½" insulation, 100-ft. coil	A6140500	1.81"	7.4 Btu/hr/ft	3.9	40" x 6.5"	8.0 lbs.
¾" Pre-insulated Wirsbo hePEX with ½" insulation, 100-ft. coil	A6140750	2.06"	9.0 Btu/hr/ft	3.6	40" x 6.5"	12.8 lbs.
1" Pre-insulated Wirsbo hePEX with ½" insulation, 100-ft. coil	A6141000	2.31"	10.6 Btu/hr/ft	3.4	42" x 9"	21.0 lbs.
1¼" Pre-insulated Wirsbo hePEX with ½" insulation, 100-ft. coil	A6141250	2.56"	12.1 Btu/hr/ft	3.3	44" x 9"	30.0 lbs.
1½" Pre-insulated Wirsbo hePEX with ½" insulation, 100-ft. coil	A6141500	2.81"	13.6 Btu/hr/ft	3.2	46" x 9"	42.0 lbs.
2" Pre-insulated Wirsbo hePEX with ½" insulation, 100-ft. coil	A6142000	3.31"	16.5 Btu/hr/ft	3.1	46" x 13.5"	65.0 lbs.
½" Pre-insulated Wirsbo hePEX with 1" insulation, 100-ft. coil	A6150500	2.59"	6.3 Btu/hr/ft	7.5	45" x 9"	11.0 lbs.
¾" Pre-insulated Wirsbo hePEX with 1" insulation, 100-ft. coil	A6150750	3.08"	7.1 Btu/hr/ft	7.9	43" x 13.5"	22.0 lbs.
1" Pre-insulated Wirsbo hePEX with 1" insulation, 100-ft. coil	A6151000	3.09"	8.8 Btu/hr/ft	6.4	45" x 13.5"	30.2 lbs.
1¼" Pre-insulated Wirsbo hePEX with 1" insulation, 100-ft. coil	A6151250	3.34"	10.0 Btu/hr/ft	6.1	52" x 9"	39.2 lbs.
1½" Pre-insulated Wirsbo hePEX with 1½" insulation, 75-ft. coil	A6161500	4.93"	7.0 Btu/hr/ft	11.2	54" x 13.5"	49.5 lbs.
2" Pre-insulated Wirsbo hePEX with 1½" insulation, 75-ft. coil	A6162000	5.27"	8.6 Btu/hr/ft	9.9	58" x 13.5"	74.3 lbs.
½" Pre-insulated Wirsbo hePEX with 1½" insulation, 100-ft. coil	A6160500	3.77"	4.0 Btu/hr/ft	13.8	58" x 9"	22.0 lbs.
¾" Pre-insulated Wirsbo hePEX with 1½" insulation, 100-ft. coil	A6160750	4.02"	4.9 Btu/hr/ft	12.5	58" x 13.5"	29.0 lbs.
1" Pre-insulated Wirsbo hePEX with 1½" insulation, 100-ft. coil	A6161000	4.27"	5.7 Btu/hr/ft	11.6	57" x 13.5"	37.5 lbs.
1¼" Pre-insulated Wirsbo hePEX with 1½" insulation, 100-ft. coil	A6161250	4.52"	6.4 Btu/hr/ft	11.0	58" x 13.5"	46.3 lbs.
1½" Pre-insulated Wirsbo hePEX with 2" insulation, 50-ft. coil	A6171500	5.88"	5.2 Btu/hr/ft	15.4	58" x 13.5"	56.3 lbs.
2" Pre-insulated Wirsbo hePEX with 2" insulation, 50-ft. coil	A6172000	6.22"	6.4 Btu/hr/ft	13.7	59" x 13.5"	81.3 lbs.

### Installation

Use ProPEX<sup>®1</sup> fittings to connect the piping. Refer to the Uponor Radiant Floor Heating Installation Handbook for additional information.

### Standards

CSA B137.5; ASTM F876; ASTM F877; ASTM F1960; ASTM F2023; DIN 4726/9; NSF/ANSI 14; NSF/ANSI 61

### Codes

HUD; ICC; IMC; UMC; IPC; UPC; NSPC; IRC; NBC of Canada; NPC of Canada; UFGS

### Listings

CCMC; cNSFus-rfh; cNSFus-pw; CSA; ETL; IAPMO; ICC-ES; ITS; PPI TR-4; UL; WH

### Related Applications

Radiant Heating and Cooling Systems  
Snow and Ice Melting Systems  
Permafrost Protection Systems  
Turf Conditioning Systems

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