

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

Submittal information
Revision B: Sept. 19, 2018

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 heating and cooling or radiant heating and 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®1 fittings to connect the piping. Refer to the ProPEX Connections Instructional Guide or 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; IAPMO; ICC-ES; ITS; PPI TR-4; UL

Related applications

Radiant heating and cooling systems
Hydronic heating and cooling systems
Snow and ice melting systems
Permafrost protection systems
Turf conditioning systems

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