Radiant Rollout™ Mat with Wirsbo hePEX™ Tubing

Submittal Information
Revision E: Feb. 4, 2013

Project Information

Job Name:

Location: | Part No. Ordered:

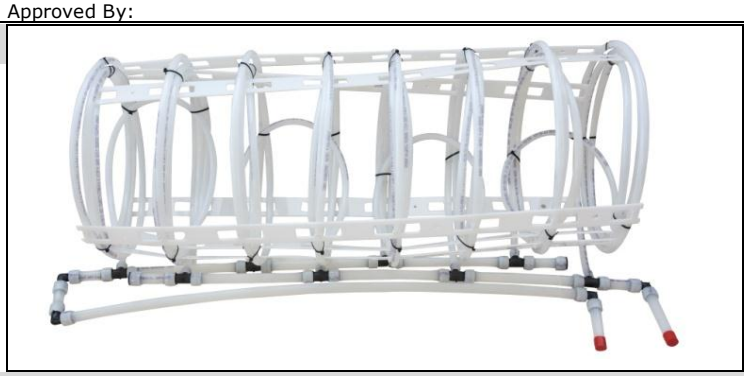
Engineer: | Date Submitted:

Contractor: | Submitted By:

Manufacturer's Representative: | Approved By:

Technical Data

Materials:	Crosslinked polyethylene (PEX-a) Engel method UDEL® polysulfone (PSU) 20% glass-reinforced for ProPEX® engineered polymer (EP) fittings[1] Acetal polymer for support strip bracing; Nylon zip ties; Brass Schrader® valve
Standard Grade Hydrostatic Ratings (PPI):	200°F at 80 psi (93°C at 5.51 bar) 180°F at 100 psi (82°C at 6.89 bar) 73.4°F at 160 psi (23°C at 11.03 bar)
Linear Expansion Rate:	1.1"/10°F per 100' (27.94mm/5.56°C per 30.48m)



Product Information and Application Use

The Radiant Rollout™ Mat featuring ½" or ⅝" Wirsbo hePEX™ tubing is designed for large commercial installations. The Radiant Rollout Mat with the in-slab, reverse-return header option is delivered pressurized to 20 psi to ensure system integrity. Wirsbo hePEX tubing has an oxygen diffusion barrier that meets German DIN 4726.

✓	Description and Tubing Spacing	Tubing	Loops	Roll Height	Roll Length	Support Strip Bracing	Roll Width	Roll Weight
☐	Radiant Rollout Mat, 40' to 225', 6" o.c.	½" Wirsbo hePEX tubing	5 or 10	2' to 4'	40' to 160'	5' wide; place every 7' length; pre-drilled anchor points; acetal polymer	5' or 10'	3.1 or 6.2 lbs.
☐	Radiant Rollout Mat, 40' to 225', 9" o.c.	½" Wirsbo hePEX tubing	3 or 6	2' to 4'	40' to 160'	5' wide; place every 7' length; pre-drilled anchor points; acetal polymer	4.5' or 9'	2 or 4 lbs.
☐	Radiant Rollout Mat, 40' to 225', 6" o.c.	⅝" Wirsbo hePEX tubing	5 or 10	2' to 4'	40' to 160'	5' wide; place every 7' length; pre-drilled anchor points; acetal polymer	5' or 10'	4.5 or 9 lbs.
☐	Radiant Rollout Mat, 40' to 225', 9" o.c.	⅝" Wirsbo hePEX tubing	3 or 6	2' to 4'	40' to 160'	5' wide; place every 7' length; pre-drilled anchor points; acetal polymer	5' or 10'	3 or 6 lbs.

✓	Header/Manifold Options	Type	Compatible Tubing	Fittings	Schrader Valve	Weight	Comments
☐	In-slab Header Option	¾" Reverse Return Header	½" or ⅝" Wirsbo hePEX tubing	¾" ProPEX EP Fittings	Pre-pressurized to 20 psi	2.0 lbs.	For left- or right-side configuration for the ½" or ⅝" tubing, the 10' manifold with reverse/return tubing connects two 5' mats.
☐	Wall Manifold Option	TruFLOW™ Classic	½" or ⅝" Wirsbo hePEX tubing	N/A	Not pre-pressurized	N/A	The Radiant Rollout Mat is custom-ordered. Part number is issued at the time of order.

Installation

At the jobsite, roll out the mat and, depending on your header/manifold selection, connect to a supply-and-return line using the attached header (optional) or connect each loop to a wall manifold (optional). Customized for your project, installation needs vary. Contact your local Uponor representative for more information.

Standards

CSA B137.5; ASTM F876/F877; ASTM F1960; ASTM E84; CAN/ULC S102.2; ASTM E119/UL 263; ANSI/NSF 61

Codes

IPC; UPC; IMC; UMC; NSPC; IRC; NPC of Canada

Listings

NSF-rfh; NSF-pw; UL; PPI; ICC ESR-1529; IAPMO ES-0253; QAI 25 FS/50SD plenum listing

Related Applications

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

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[1]ProPEX® is a registered trademark of Uponor, Inc. ProPEX™ is a trademark of Uponor Ltd.