

Perma-Ice vs. 1" Poly Sand Floor

	Perma-Ice	Conventional 1" Polyethylene
* Heat transfer surface area in the rink floor:	22253 sq. ft.	14061 sq. ft.
* Thermal conductivity distance from feed to return pipe:	1.5"	2.75"
* Pipe Center to Center dimensions	1.5"	4"
* Can be used for future concrete floor installation:	Easy	No
* Can be used as a semi-portable system over an existing concrete rink floor:	Yes	No
* If cut with a skate blade or resurfacing machine, easily repair in a few minutes with little leakage or problems:	Easy	Very Difficult
* Comes factory pre-fabricated made to fit the rink with little field work:		
Even radii are manufactured to fit:	Yes	No
* Requires hundreds of man hours for installation since each pipe must be field measured and cut to fit the rink:	Fast, easy install	Difficult process
* Difficult to control pipe contraction during cool down causing U-bends to pull away from edges:	No	Yes
* Installs quickly in factory assembled mats of 32 tubes with U-bends already attached:	Yes	No
* Expands during summer warm periods requiring pipe rework before start-up every season:	No	Yes
* High flow rate with low pressure drop:	Yes	No
* Amount of fluid in system:	1750 gals	2500gals
* Works with all secondary fluids:	Yes	Yes
* Corrosion proof spacer strip	Yes	No
* Maximum temperature differential for good ice quality (overall performance of piping):	12°F	3°F
* Warranty period	3 Full Years	1 Year

