

HDPE 4710 PIPE

The Best Choice For Water Systems

	TOP 10 Features and Benefits	HDPE	D. Iron
1	Applications: Potable Water (Lead Free), Raw Water, Reclaimed Water, and Wastewater <i>References: AWWA C901, C906, C151, & NSF 61 + Health Effects of HDPE Pipes and Fittings for Potable Water Applications, NSF 2024</i>	✓	✓
2	Open Cut Construction: Design and install per AWWA Standards and Manuals eliminating thrust blocks <i>Ref: AWWA M55, M41 + MAB-3, MAB-6</i>	✓	✓
3	Trenchless Construction: Material of choice for HDD, Pipe Bursting, Sliplining, and Compression Fit <i>Ref: ASTM F585, F1962, F3508 + MAB-5, MAB-7, MAB-11</i>	✓	X
4	Fully Restrained Joint-Free System: Minimize need for fittings to facilitate horizontal and vertical deflections <i>Ref: AWWA M55, M41</i>	✓	X
5	Longevity & Corrosion: Pipes, Fittings, and Joints have the least potential for corrosion or tuberculation <i>References: Durability and Reliability of Large Diameter HDPE Pipe for Water Main Applications, EPA/WRF/WERF 2025 + Critical Need for Corrosion Management in the Water Treatment Sector, NACE 2019 + PPIPACE.com + Long-Term Aging of Polyethylene Pipes, UKWIR 2020</i>	✓	X
6	Flow Capacity: New pipes have similar flow capacity per AWWA Standards and Manuals <i>References: AWWA M55, M41 and PPIPACE.com</i>	✓	✓
7	Water & Energy Conservation: Fused Joints have zero allowable water leakage and zero infiltration <i>References: AWWA M55, M41 + ASTM F2620, F3190, F3565 and MAB-1, MAB-2, MAB-8</i>	✓	X
8	Cost Effective: Has the lowest initial cost, lowest life cycle cost, and lowest restoration cost for trenchless installations <i>References: Life Cycle Analysis of Water Networks, CSIRO 2008 + Annual Drinking Water Quality Report for 2014, Kittery Water District, 5/31/15</i>	✓	X
9	Resilient: Ability to resist water hammer and ground movements due to droughts, freeze/thaw, earthquakes and hurricanes with the ability for flow control and squeeze off <i>References: Recent Earthquakes: Implications for U.S. Water Utilities, WRF 2012 + Polyethylene Pipeline Performance Against Earthquake, Kubota 2018 and MAB-9, MAB-10</i>	✓	X
10	Permeation/BTEX: Pipes and elastomeric joints need to be properly engineered for contaminated conditions <i>References: AWWA C901/C906 and C111/C151, Sec. 4</i>	X	X



Additional information including MAB-3 Model Spec Guide can be found at www.plasticpipe.org/mabpubs