

Engineering Standards

ASTM alignment makes MagnaPlast™ easier to specify for engineers, easier to install for contractors, and easier to approve for municipalities

Engineers

F1759: Core HDPE manhole design

D3350: HDPE resin requirements

D2321: Installation / backfill

F477: Gaskets and seals

Support design confidence and specification adoption

Contractors

D2321: Bedding and embedment

F1417: Acceptance air testing

F2620: Fusion procedures

F1055 / D3261 / F2206: Connection methods

These standards reduce field risk, inspection friction, and installation disputes.

Municipalities

A48 / F1143: Frame, cover, watertight cover specs

C478: Step spacing reference

AASHTO M306 / H-20 / HL-93: Roadway loading expectations

CSI performance spec: Approvals and procurement support

Standards are essential criteria in how cities approve details, products, and bid specs.



Why MagnaPlast™ Can't Be Ignored

Decision Driver		MagnaPlast		Precast Concrete
Corrosion resistance	Yes	Impervious to H ₂ S corrosion	No	Corrodes in H ₂ S environments
Service life	Yes	100-year design position	No	Avg. ~23 years in corrosive conditions
Lifecycle value / maintenance	Yes	Nearly maintenance-free; lower long-term burden	No	Rehab, bypass, and replacement exposure
Leak risk	Yes	Factory leak-tested as one unit	No	Field joints and long-term leakage risk
Structure	Yes	One-piece, factory-assembled	No	Not monolithic
Installation	Yes	Lightweight, safer, fast, no heavy equipment	No	Heavier, more labor/equipment intensive

Bottom line: If corrosion, maintenance, leakage risk, and installation efficiency matter, MagnaPlast deserves evaluation before concrete is specified.

