

Quality at Haviland Drainage Products begins long before pipe is produced. We carefully test incoming resins to ensure the utmost quality. Each step of the manufacturing process is carefully monitored, resulting in high caliber products. Serving our customers is our top priority, through our high quality products and customer service.

Haviland is excited to offer a vast array of quality control testing and equipment in order to provide our customers with the highest quality products. Haviland’s lab is on site and able to test density with our new density machine. The FTIR scanner makes it easy to analyze different types of plastics. We also have the ability to perform stiffness and flattening tests on the full gamut of diameters that Haviland has to offer. Our ability to perform IZOD testing helps us to provide our customers with the most durable products on the market. Most of the noted test are done numerous times a day, each shift, on every diameter of pipe being produced, and all material being utilized for production. In addition, our lab is able to perform other various types of quality control testing to help ensure we are providing a high quality product.

Resin Cell Classifications	ASTM Specification D3350 Polyethylene Resins
Density	4
Melt Index	3
Flexural Modulus	5
Tensile Strength	4
ESCR	0
HDB	0
UB Stabilizer Code	C
Applicable Standards	
ASTM D 2321	Standard specification for thermoplastic pipe for sewers & other Gravity Flow Applications
ASTM D 3212	Standard specification for drain and sewer plastic pipes using flexible Elastomeric Seals
ASTM D 3350	Standard specification for polyethylene plastic pipe & fitting material
ASTM F 405	Standard specification for corrugated polyethylene pipe and fittings
ASTM F 449	Standard specification for corrugated polyethylene pipe for agricultural drainage or water table control
ASTM F 477	Standard specification for Elastomeric Seals (gaskets) for joining plastic pipe
ASTM F 667	Standard specification for large diameter corrugated polyethylene pipe & fittings
ASTM F 810	Standard specification for smoothwall polyethylene pipe for use in drainage and waste disposal absorption fields
ASTM F 892	Standard specification for polyethylene corrugated pipe with smooth interior & fittings
ASTM F 894	Standard specification for polyethylene large diameter profile wall sewer & drain pipe
ASTM F 1417	Standard test method for installation acceptance of plastic gravity sewer lines using low-pressure air
ASTM F 2306	Standard specification for 12” - 60” annular corrugated profile-wall polyethylene pipe & fittings
ASTM F 2487	Standard practice for infiltration/exfiltration acceptance testing of installed corrugated high density polyethylene pipelines
ASTM F 2648	Standard specification for 2”-60” annular corrugated profile-wall polyethylene pipe & fittings for land drainage application
AASHTO M 252	Standard specification for corrugated polyethylene drainage pipe, 3”-10” diameter
AASHTO M 294	Standard specification for corrugated polyethylene pipe, 12”-60” diameter

All materials must be installed in accordance with ASTM and AASHTO standards.

Note: Please see the website (haviland-drainage.com) for current state organizational approval.