

ADVANEDGE® PIPE SPECIFICATION

Scope

This specification describes 12-inch (300 mm) AdvanEdge oblong corrugated pipe for use in subsurface drainage applications.

Product Requirements

AdvanEdge shall have annular interior and exterior corrugations.

- 12-inch (300 mm) shall meet ASTM D7001.

AdvanEdge outside dimensions shall be 1.5" (38 mm) thick x 12.5" (318 mm) wide. AdvanEdge shall have internal bracing adjoining each long wall to prevent crushing under typical loading. AdvanEdge shall be made available with or without an external geotextile wrap.

When geotextile is provided, product shall meet the requirements of Class B Geocomposite as defined in ASTM D7001.

Material Properties

All pipe and fittings shall be made of polyethylene with a minimum cell classification of 424420C as defined and described in the latest version of ASTM D3350.

Perforations

| | |
|---|-------------|
| Nominal Pipe Size, in (mm) | 12 (300) |
| Slot Length (avg.), in (mm) | 1.125 (29) |
| Slot Width (avg.), in (mm) | 0.125 (3.2) |
| Water Inlet Area (approx.), In ² /ft | 15 |

Filter Fabric

| Fabric Properties | Test Method | Minimum Average Roll Values |
|---|-------------|-----------------------------|
| Grab Tensile Strength (lbs) – weakest principle direction | ASTM D4632 | 112 |
| Grab Elongation (%) – weakest principle direction | ASTM D4632 | 50 |
| Trapezoidal Tear (lbs) – weakest principle direction | ASTM D4533 | 40 |
| Puncture (lbs) | ASTM D4833 | 40 |
| Permittivity (sec ⁻¹) | ASTM D4491 | 0.5 |
| AOS (U.S. Sieve Size) | ASTM D4751 | 60 |
| U.V. Resistance | ASTM D4355 | 50 |