

S3.05 AdvanEdge® Pipe Specification

Scope

This specification describes 18-inch (300 mm) AdvanEdge oblong corrugated pipe for use in subsurface drainage applications.

Pipe 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.

Pipe

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	Min. 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

