

AdvanEDGE® Pipe

The advanced panel pipe for rapid-response drainage

ADS AdvanEDGE panel pipe provides the dimensional stability and field-proven structural strength for quick, effective subsurface drainage. It consists of a perforated panel-shaped plastic core wrapped with geotextile for soil filtration. The distinguishing performance feature of panel pipe is its ability to rapidly collect and remove water. Compared to 4" round pipe with an equal length of 12", panel pipe has twice the soil contact area and will drain a given quantity of water in about 60% of the time. Its slim 1.5" profile permits a narrow trench and faster installation.

AdvanEDGE is truly a pipe. It's not round, of course, but its panel-shaped core fully encloses the waterway. Lateral pillars maintain the core opening, resulting in a series of oval-shaped channels providing superior strength and relatively few projections into the waterway. The design of the invert permits significantly higher flow velocity at lower head.

An effective solution for a wide range of applications:

- Highway edge drains
- Athletic turf drainage
- Building foundations and retaining walls
- Waste management curtain drains



AdvanEDGE is designed to provide significantly higher flow and structural strength

Geotextile acts as a soil filter only, not as a structural member



HDPE core fully encloses waterway

Lateral pillars maintain pipe rigidity

Full invert retains water and promotes high flow capacity

Features:

- 12" and 18" (300 and 450 mm) oblong dimensions available
- 100 ft and 500 ft lengths available
- Fast installation times
- Manufactured from high density polyethylene resin

Benefits:

- Invert design permits significantly higher flow velocity at lower head
- Structural superiority confirmed by state field performance tests of edge drains
- Higher flow capacity compared to various geocomposites
- Slim-line design allows for narrow trench installation, easily cut in with high-speed trenching equipment
- Long-term durability of HDPE

ADS AdvanEDGE Pipe Specifications

Scope

This specification describes 12" and 18" (300 and 450 mm) ADS AdvanEDGE oblong corrugated pipe for use in subsurface drainage applications.

Pipe Requirements

ADS AdvanEDGE shall meet ASTM D7001 and have outside dimensions of 1.5" wide by 13" tall or 1.5" wide by 18" tall. AdvanEDGE shall have internal bracing adjoining each long wall to prevent crushing under typical loading. AdvanEDGE shall be made available with or without external geotextile wrap.

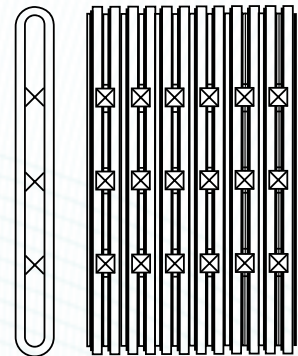
Material Properties

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

AdvanEDGE Perforations			
Nominal Pipe Size, in.	12	18	
(mm)	(300)	(450)	
Slot Length (Avg), in.	1.125	1.125	
(mm)	(29)	(29)	
Slot Width (Avg), in.	0.125	0.15	
(mm)	(3.2)	(4)	
Water Inlet Area (Approx),	in ² /ft	15	20

All Values provided are for reference purposes only.

AdvanEDGE Geotextile Wrap		
Fabric Properties	Test Method	Minimum Average Roll Values
Grab Tensile Strength (lbs.) (weakest principle direction)	ASTM D4632	120
Grab Elongation (%) (weakest principle direction)	ASTM D4633	60
Trapezoidal Tear (lbs.) (weakest principle direction)	ASTM D4533	40
Puncture (lbs.)	ASTM D3786	30
Permittivity	ASTM D4491	0.7
AOS (U.S. Sieve Size)	ASTM D4751	60
U.V. Resistance	ASTM D4355	70



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