

AKWADRAIN™ soil strip drain

PRODUCT DESCRIPTION

AKWADRAIN soil strip drain is a two-part prefabricated soil strip drain consisting of a formed polystyrene core covered on all sides with a non-woven, needle-punched polypropylene filter fabric. The fabric allows water to pass into the drain core while restricting the movement of soil particles which might clog the core. The core allows the water to flow to designated drainage exits.

BASIC USES

AKWADRAIN soil strip drain is designed to replace perforated pipe and stone drainage systems in various applications. It provides a significantly higher flow rate as well as increased ease of handling and installation. The product can be used alone or with other American Wick Drain products, depending on the application.

PACKAGING

- 6" x 150' Rolls
- 12" x 150' or 500' Rolls
- 18" x 150' or 500' Rolls
- 24" x 150' or 500' Rolls
- 36" x 100' Rolls

INSTALLATION INSTRUCTIONS

DRAIN ATTACHMENT METHODS:

When attachment to waterproofing material, concrete or wood is necessary, several methods may be used including metal stick pins, nails driven through washers or wood lathing, construction adhesives or double sided tape. Discuss materials compatibility with waterproofing supplier before using adhesives. Typically any method used for attaching waterproofing protection board will work with drain.

OUTLETS:

Fittings are available to connect AKWADRAIN to 4" pipe. These are available in several configurations, depending on drain width and pipe location. Details are available upon request.

SPLICES:

Splices are available for 6" AKWADRAIN. Other widths are spliced by peeling back the fabric and interlocking the dimpled core. Afterwards, replace the fabric and secure with tape.

CORNERS:

Fittings are available for bending drain around corners. Detailed instructions for installation of fittings available upon request.

BACKFILLING:

Soil should be placed and compacted directly against the drain. Direct compactor exhaust away from drain to prevent damage. Backfill to a minimum 3" above drain to allow for coverage after settlement.

DETAILED INSTRUCTIONS FOR INSTALLATION AND TERMINATION ARE AVAILABLE UPON REQUEST.



AMERICAN WICK DRAIN CORPORATION

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Technical Data

PHYSICAL PROPERTIES	TYPICAL US VALUE	TYPICAL SI VALUE	TEST METHOD
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FABRIC PROPERTIES

Material	Polypropylene	Polypropylene	
Grab Tensile Strength	110 lbs	485N	ASTM D-4632
Puncture Strength	65 lbs	285N	ASTM D-4833
Trapezoidal Tear	50 lbs	220N	ASTM D-4533
Mullen Burst Strength	215 psi	1430kPa	ASTM D-3786
Elongation	60%	60%	ASTM D-4632
EOS (AOS)	100 sieve	150 micron	ASTM D-4751
Permittivity	1.6 sec ⁻¹	1.6 sec ⁻¹	ASTM D-4491
Permeability	0.3 cm/sec	0.3 cm/sec	ASTM D-4491
Flow Rate	150 g/min/ft ²	6110 L/min/m ²	ASTM D-4491
UV Resistance (After 500 hrs.)	70%	70%	ASTM D-4355

DRAIN PROPERTIES

Peel Strength	38 lbs/ft ²	4 N/m ²	ASTM D-1876
Compressive Strength	6,000-9000 lbs/ft ²	630-940 N/m ²	ASTM D-1621 (Mod.)
Shear Strength	6,000-9000 lbs/ft ²	630-940 N/m ²	ASTM D-1621 (Mod.)
Fungus Resistance (Core)	No Growth	No Growth	ASTM G-21
Unobstructed Inflow Area (Primary Side)	85%	85%	
In-Plane Flow (Hydraulic gradient=0.1, Loading=10 psi)	21 gpm/ft width	261L/min/m width	ASTM D-4716

DIMENSIONAL PROPERTIES

	6"x150'	12"x150'	12"x500'	18"x150'	18"x500'	24"x150'	24"x500'	36"x100'
Thickness (in)	1	1	1	1	1	1	1	1
Widths (in)	6	12	12	18	18	24	24	36
Roll Length (ft)	150	150	500	150	500	150	500	100
Roll Diameter (ft)	5	5	7	5	7	5	7	3.5
Roll Weight (lbs)	24	48	160	72	240	96	320	96

All information, drawings and specifications are based on the latest product information available at the time of printing. Constant improvement and engineering progress make it necessary that we reserve the right to make changes without notice. All physical properties are typical values. Standard variations in mechanical properties of 10% and in hydraulic properties of 20% are normal.



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