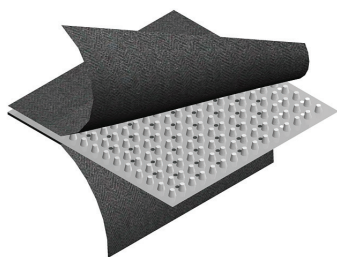


SITEDRAIN™ DS-90 SERIES

PREFABRICATED SHEET DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-90 Series geocomposite sheet drain products are composed of a dimpled polymeric perforated core with a geotextile bonded to both sides. The geotextile allows water to pass through while retaining backfill materials. The perforated core allows water collection from both sides and provides a continuous flow path to designated drainage exits.

SITEDRAIN DS-90 Series products provide an economical solution for double-sided subsurface drainage applications requiring moderate strength and high flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY ¹	TEST METHOD	UNIT OF MEASURE	DS-93	DS-94	DS-96	DS-98
GEOTEXTILE						
Material ²			PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	3	2	1
Grab Tensile Strength	ASTM D4632	lbs	100	135	195	245
		N	445	601	867	1,090
Grab Elongation	ASTM D4632	%	70	60	60	60
CBR Puncture	ASTM D6241	lbs	305	365	505	580
		N	1,356	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	50	60	85	100
		N	222	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70
Apparent Opening Size (AOS) ³	ASTM D4751	sieve	70	70	70	80
		mm	0.212	0.212	0.212	0.180
Permittivity	ASTM D4491	sec ⁻¹	2.7	2.4	2.1	1.8
Water Flow Rate	ASTM D4491	gpm / ft ²	165	175	155	135
		Lpm / m ²	6,724	7,130	6,315	5,501
CORE						
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	9,000	9,000	9,000
		kPa	431	431	431	431
Thickness	ASTM D5199	in	0.25	0.25	0.25	0.25
		mm	6.35	6.35	6.35	6.35
In-Plane Flow Rate ⁴	ASTM D4716	gpm/ft	12	12	12	12
		Lpm/m	149	149	149	149
COMPOSITE						
Roll Size	MEASURED	ft	4 x 50	4 x 50	4 x 50	4 x 50

¹ Unless otherwise noted, all physical and performance properties listed are Typical Value as defined in ASTM D4439.

² PP = Polypropylene; NPNW = Needle-Punched Nonwoven; WM = Woven Monofilament; SBNW = Spunbonded Nonwoven

³ Values for AOS represent Maximum Average Roll Value (MaxARV).

⁴ In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

All technical information contained in this document is accurate as of publication. AWD reserves the right to make changes to products and literature without notice. Please refer to our website for the most current technical information available.

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Stabilization Fabrics

Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

**GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT
SEDIMENT CONTROL | REVEGETATION & SOIL AMENDMENTS**