



SITEDRAINTM PREFABRICATED DRAINS





PRODUCT NAME BREAKDOWN

Core Compressive
Strength



183



Geotextile
Weight

AMERICAN WICK DRAIN (AWD) provides high quality subsurface drainage solutions, leveraging decades of expertise in commercial, government and residential applications. Our optimized system and innovative product line combine geotextiles and specially designed drainage cores. From retaining walls, concrete slabs, trench drains, and athletic fields, AWD is the trusted name working below the surface to ensure the surrounding earth is dry, solid and secure. AWD prefabricated drains provide an engineered response to a variety of drainage problems by collecting and redirecting water away from a structure or site.

We manufacture an extensive line of our AWD **SITEDRAIN** products to mitigate subsurface drainage for a broad range of construction applications. Our prefabricated drains consist of formed three-dimensional polymeric cores combined with a geotextile. The core offers strength to withstand soil pressure and provides a secure flow channel for collected water. The geotextile retains soil particles while allowing water to freely enter the drainage core. Our sheet, strip, combination and wick drains provide an engineered response to your drainage problem.

AWD **SITEDRAIN** products are manufactured to meet ASTM standard physical and mechanical properties. Design considerations typically include three basic physical properties: water flow rate, core compressive strength and ability of the geotextile to filter soil particles. Please visit our website for more information.

*Project Highlights on Cover: Top Left clockwise - Soil Nail Wall: Globe Life Field Arlington, TX Slope Stabilization MSDOT, Jones County, MS MSE Wall Cordlandt Crossing Mohegan Lake, NY Retaining Wall Silver Line Phase 2 Reston, VA/Dulles Va

APPLICATIONS SUMMARY

AWD products can be used in many applications within civil and site construction. Below are the many areas where wall drains can be used along with other systems that AWD has available.

STRUCTURAL WALLS

SITEDRAIN Sheet drain is used on the exterior of subsurface walls to intercept ground water before it reaches the structure. Water is easily routed by the SITEDRAIN HQ system to a discharge pipe or other designated drainage outlet. The sheet drain system reduces hydrostatic pressure buildup against walls and slab, reducing the risk of leakage and extending the life of the structure.

UNDER SLABS

SITEDRAIN Sheet drain is used under structural slabs to intercept ground water before it reaches the slab. Water is then routed to a discharge pipe, sump or other designated drainage outlet.

LAGGING & SHORING WALLS

Where space is limited or where aggregate drainage is difficult to install, SITEDRAIN Sheet drain provides superior drainage with a low profile, lightweight product that reduces excavation requirements.

SHOTCRETE & GUNNITE WALLS

SITEDRAIN Sheet drain provides effective drainage for shotcreted walls. Sheet drain provides a solid surface for adhesion of reinforced shotcrete or other construction materials.

RETAINING WALLS:

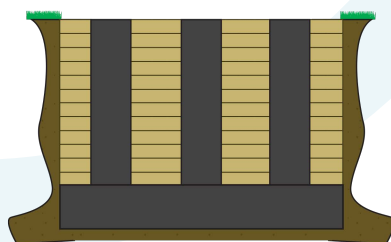
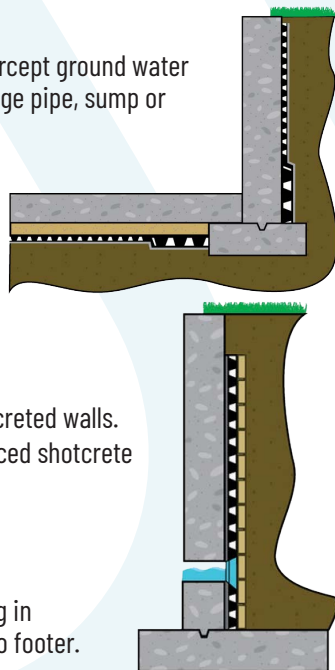
SITEDRAIN Sheet drain reduces hydrostatic pressure from the backfill behind subsurface walls, assisting in maintaining the structural integrity of the wall from grade to footer.

EARTH, ROCK & ROLLED CONCRETE DAMS

SITEDRAIN Sheet drain is used to prevent seepage at the toe of the dam and as a cutoff drain within the dam. Slope stability during rapid draw down is also aided.

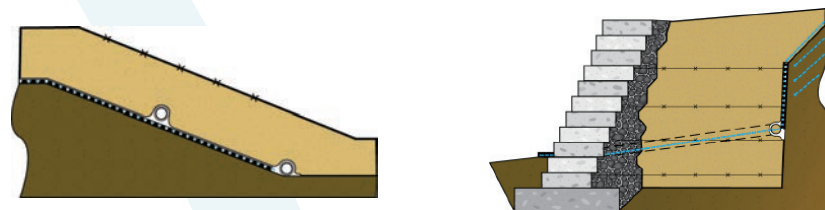
CHIMNEY DRAINS

SITEDRAIN Chimney drain is installed vertically in applications where full wall coverage is not practical due to protrusions in the wall surface, such as soil nails. Chimney drains may also be used in select applications where full wall coverage is not required and/or cost effective.



EMBANKMENTS & SLOPES

SITEDRAIN Sheet drain is used in embankment and slope drainage applications to minimize soil swelling, weakening and failure from surface and/or subsurface water sources.



TUNNELS & BOX CULVERTS

Water can attack these structures from four directions: top, bottom and either side. SITEDRAIN Sheet drain provides rapid removal of water to reduce hydrostatic pressure and to minimize the risk of leakage into the structure.

POND LINERS

The installation of SITEDRAIN Sheet or Strip drain under pond liners prevents uplift due to methane gas buildup in organic soils.

CONCRETE CHANNEL LINERS

The installation of SITEDRAIN Sheet drain under concrete-lined channels prevents uplift due to hydrostatic pressure, greatly reducing the risk of leakage or structural failure.

CUT-OFF DRAINS

SITEDRAIN Sheet, Strip or Combination drains are used instead of, or in addition to, aggregate to intercept, collect and transport water flow.

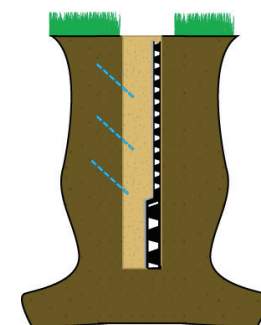
FRENCH, TRENCH DRAINS

SITEDRAIN Sheet, Strip or Combination drains are used instead of, or in addition to, aggregate to intercept, collect and transport water flow.

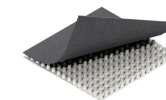
PERIMETER COLLECTION DRAINS SITEDRAIN Strip or Combination drains are used as a direct replacement to perforated pipe and stone perimeter drain systems. Combination drains have an engineered core flange designed to connect to sheet drains to provide a complete drainage system.

LANDFILL CAPS & UNDERDRAINS

SITEDRAIN Sheet drain is used above landfill caps to intercept water from the surface and route it to designated drainage exits. Sheet drain is used below landfill caps and liners as a leachate collection.



SITEDRAIN™ PREFABRICATED SHEET DRAINS



SITEDRAIN Sheet prefabricated drains combine a formed polymeric drainage core with a filter fabric bonded to one side. The filter fabric is bonded to each dimple to prevent soil intrusion into the core flow channels while allowing water to freely enter the drain core. The core provides an uninterrupted path for water to flow to designated drainage exits.

SITEDRAIN Sheet Drains are an economical solution for subsurface, single-sided drainage applications. SITEDRAIN prefabricated sheet drains are manufactured to meet various compressive strengths and flow capacities and are available with filter fabrics meeting AASHTO M 288-06 specifications.

PROPERTY ¹	TEST METHOD	UNIT OF MEASURE	93*	94	96	98	113	114	116	118	183	184	184-T	186	186-W	188	303	304	306	308
GEOTEXTILE																				
Material ²			PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, SBNW	PP, NPNW	PP, WM	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	-	-	3	2	1	-	3	2	1	-	3	3	2	-	1	-	3	2	1
Grab Tensile Strength	ASTM D4632	lbs	100	135	195	245	100	135	195	245	100	135	150	195	430 x 240	245	100	135	195	245
		N	445	601	867	1,090	445	601	867	1,090	445	601	667	867	1,914 x 1,068	1,090	445	601	867	1,090
Grab Elongation	ASTM D4632	%	70	60	60	60	70	60	60	60	70	60	50	60	30 x 15	60	70	60	60	60
CBR Puncture Strength	ASTM D6241	lbs	305	365	505	580	305	365	505	580	305	365	295	505	800	580	305	365	505	580
		kN	1,356	1,624	2,246	2,580	1,356	1,624	2,246	2,580	1,356	1,624	1,312	2,246	3,560	2,580	1,356	1,624	2,246	2,580
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	70	70	70	70	70	70	70	70	90	70	70	70	70	70
Apparent Opening Size ³	ASTM D4751	sieve	70	70	70	80	70	70	70	80	70	70	80	70	50	80	70	70	70	80
		mm	0.212	0.212	0.212	0.180	0.212	0.212	0.212	0.180	0.212	0.212	0.180	0.212	0.300	0.180	0.212	0.212	0.212	0.180
Permittivity	ASTM D4491	sec ⁻¹	2.7	2.4	2.1	1.8	2.7	2.4	2.1	1.8	2.7	2.4	1.0	2.1	2.7	1.8	2.7	2.4	2.1	1.8
Water Flow Rate	ASTM D4491	gpm/ft ²	165	175	155	135	165	175	155	135	165	175	70	155	195	135	165	175	155	135
		Lpm/m ²	6,724	7,130	6,315	5,501	6,724	7,130	6,315	5,501	6,724	7,130	2,850	6,315	7,944	5,501	6,724	7,130	6,315	5,501
CORE																				
Material ²			HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS
Compressive Strength	ASTM D6364	psf	9,000	9,000	9,000	9,000	11,000	11,000	11,000	11,000	18,000	18,000	18,000	18,000	18,000	18,000	30,000	30,000	30,000	30,000
	ASTM D1621	kPa	431	431	431	431	527	527	527	527	862	862	862	862	862	862	862	862	862	862
Thickness	ASTM D1777	in	0.25	0.25	0.25	0.25	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.25	0.25	0.25	0.25
		mm	6.35	6.35	6.35	6.35	10	10	10	10	10	10	10	10	10	10	6.35	6.35	6.35	6.35
In-Plane Flow Rate ⁴	ASTM D4716	gpm/ft	12	12	12	12	18	18	18	18	21	21	21	21	21	21	13	13	13	13
		Lpm/m	149	149	149	149	224	224	224	224	261	261	261	261	261	261	161	161	161	161

¹ Unless otherwise noted, all physical and performance properties listed are Typical Value or Minimum Average Roll Value (MARV) as defined in ASTM D4439.

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

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

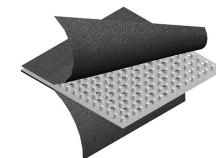
⁴ In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

*Product Name Breakdown: Compressive Strength ← 93 → Geotextile Weight

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SITEDRAIN™ PREFABRICATED DS-SHEET DRAINS



SITEDRAIN DS-Sheet Drain prefabricated products combine a formed and perforated polymeric drainage core with a filter fabric bonded to both sides. The filter fabric is bonded securely to prevent soil intrusion into the core flow channels while allowing water to freely enter the drain core. The core provides an uninterrupted path for water to flow to designated drainage exits.

SITEDRAIN DS-Sheet Drains are an economical solution for subsurface, double-sided drainage applications. SITEDRAIN DS-Sheet Drains are manufactured to meet various compressive strengths and flow capacities and are available with filter fabrics meeting AASHTO M 288-06 specifications.

PROPERTY ¹	TEST METHOD	UNIT OF MEASURE	DS-93*	DS-94	DS-96	DS-98	DS-113	DS-114	DS-116	DS-118	DS-183	DS-184	DS-186	DS-188	DS-303	DS-304	DS-306
GEOTEXTILE																	
Material ²			PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	-	-	3	2	1	-	3	2	1	-	3	2	1	-	3	2
Grab Tensile Strength	ASTM D4632	lbs	100	135	195	245	100	135	195	245	100	135	195	245	100	135	195
		N	445	601	867	1,090	445	601	867	1,090	445	601	867	1,090	445	601	867
Grab Elongation	ASTM D4632	%	70	60	60	60	70	60	60	60	70	60	60	60	70	60	60
CBR Puncture Strength	ASTM D6241	lbs	305	365	505	580	305	365	505	580	305	365	505	580	305	365	505
		kN	1,356	1,624	2,246	2,580	1,356	1,624	2,246	2,580	1,356	1,624	2,246	2,580	1,356	1,624	2,246
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Apparent Opening Size ³	ASTM D4751	sieve	70	70	70	80	70	70	70	80	70	70	70	80	70	70	70
		mm	0.212	0.212	0.212	0.180	0.212	0.212	0.212	0.180	0.212	0.212	0.212	0.180	0.212	0.212	0.212
Permittivity	ASTM D4491	sec ⁻¹	2.7	2.4	2.1	1.8	2.7	2.4	2.1	1.8	2.7	2.4	2.1	1.8	2.7	2.4	2.1
Water Flow Rate	ASTM D4491	gpm/ft²	165	175	155	135	165	175	155	135	165	175	155	135	165	175	155
		Lpm/m²	6,724	7,130	6,315	5,501	6,724	7,130	6,315	5,501	6,724	7,130	6,315	5,501	6,724	7,130	6,315
CORE																	
Material ²			HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS
Compressive Strength	ASTM D6364	psf	9,000	9,000	9,000	9,000	11,000	11,000	11,000	11,000	18,000	18,000	18,000	18,000	30,000	30,000	30,000
	ASTM D1621	kPa	431	431	431	431	527	527	527	527	862	862	862	862	862	862	862
Thickness	ASTM D1777	in	0.25	0.25	0.25	0.25	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.25	0.25	0.25
		mm	6.35	6.35	6.35	6.35	10	10	10	10	10	10	10	10	6.35	6.35	6.35
In-Plane Flow Rate ⁴	ASTM D4716	gpm/ft	12	12	12	12	18	18	18	18	21	21	21	21	13	13	13
		Lpm/m	149	149	149	149	224	224	224	224	261	261	261	261	161	161	161

¹ Unless otherwise noted, all physical and performance properties listed are Typical Value or Minimum Average Roll Value (MARV) as defined in ASTM D4439.

² PP = Polypropylene; NPNW = Needle-Punched Nonwoven; HIPS = High Impact Polystyrene

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

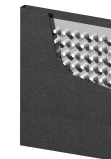
⁴ In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

*Product Name Breakdown: Compressive Strength ← 93 → Geotextile Weight

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SITEDRAINTM PREFABRICATED CHIMNEY DRAINS



SITEDRAIN Chimney Drain prefabricated products are constructed by fully wrapping a special width perforated polymeric drainage core with a nonwoven filter fabric. The filter fabric is bonded securely and prevents soil intrusion into the flow channels while allowing water to freely enter the drain core from both sides. The core provides an uninterrupted path for water to flow to designated drainage exits.

SITEDRAIN Chimney Drains are available in 12", 18" and 24" widths and provide a time saving, effective solution for reducing hydrostatic pressure in applications where full wall drain coverage is not required or feasible. SITEDRAIN Chimney Drains are manufactured to meet various compressive strengths and flow capacities and are available with filter fabrics meeting AASHTO M 288-06 specifications.

PROPERTY ¹	TEST METHOD	UNIT OF MEASURE	C-94*	C-96	C-98	C-114	C-116	C-118	C-184	C-186	C-188	C-304	C-306	C-308
GEOTEXTILE														
Material ²			PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	-	3	2	1	3	2	1	3	2	1	3	2	1
Grab Tensile Strength	ASTM D4632	lbs	135	195	245	135	195	245	135	195	245	135	195	245
		N	601	867	1,090	601	867	1,090	601	867	1,090	601	867	1,090
Grab Elongation	ASTM D4632	%	60	60	60	60	60	60	60	60	60	60	60	60
CBR Puncture Strength	ASTM D6241	lbs	365	505	580	365	505	580	365	505	580	365	505	580
		kN	1,624	2,246	2,580	1,624	2,246	2,580	1,624	2,246	2,580	1,624	2,246	2,580
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	70	70	70	70	70	70	70	70
Apparent Opening Size ³	ASTM D4751	sieve	70	70	80	70	70	80	70	70	80	70	70	80
		mm	0.212	0.212	0.180	0.212	0.212	0.180	0.212	0.212	0.180	0.212	0.212	0.180
Permittivity	ASTM D4491	sec ⁻¹	2.4	2.1	1.8	2.4	2.1	1.8	2.4	2.1	1.8	2.4	2.1	1.8
Water Flow Rate	ASTM D4491	gpm/ft²	175	155	135	175	155	135	175	155	135	175	155	135
		Lpm/m²	7,130	6,315	5,501	7,130	6,315	5,501	7,130	6,315	5,501	7,130	6,315	5,501
CORE														
Material ²			HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS
Compressive Strength	ASTM D6364	psf	9,000	9,000	9,000	11,000	11,000	11,000	18,000	18,000	18,000	30,000	30,000	30,000
	ASTM D1621	kPa	431	431	431	527	527	527	862	862	862	862	862	862
Thickness	ASTM D1777	in	0.25	0.25	0.25	0.4	0.4	0.4	0.4	0.4	0.4	0.25	0.25	0.25
		mm	6.35	6.35	6.35	10	10	10	10	10	10	6.35	6.35	6.35
In-Plane Flow Rate ⁴	ASTM D4716	gpm/ft	12	12	12	18	18	18	21	21	21	13	13	13
		Lpm/m	149	149	149	224	224	224	261	261	261	161	161	161

¹ Unless otherwise noted, all physical and performance properties listed are Typical Value or Minimum Average Roll Value (MARV) as defined in ASTM D4439.

*Product Name Breakdown: Compressive Strength ←94→Geotextile Weight

² PP = Polypropylene; NPNW = Needle-Punched Nonwoven; HIPS = High Impact Polystyrene

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.

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SITEDRAINTM PREFABRICATED STRIP DRAINS



SITEDRAIN Strip Series prefabricated drains are constructed by fully wrapping a perforated, high strength, high flow capacity polymeric core with a geotextile filter fabric. The filter fabric is securely bonded to prevent soil intrusion into the flow channels while allowing water to freely enter the drain core from all sides.

SITEDRAIN Strip Series products have more than 70% open area for water collection and provide a cost-effective, sustainable, performance driven alternative to perforated pipe & stone systems. SITEDRAIN Strip Series prefabricated drains are manufactured to meet various compressive strengths and flow capacities and are available with filter fabrics meeting AASHTO M 288-06 specifications.

PROPERTY ¹	TEST METHOD	UNIT OF MEASURE	6400*	6400-T	6600	6800	9400	9400-T	9600	9800
GEOTEXTILE										
Material ²			PP, NPNW	PP, SBNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, SBNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	-	3	3	2	1	3	3	2	1
Grab Tensile Strength	ASTM D4632	lbs	135	150	195	245	135	150	195	245
		N	601	667	867	1,090	601	667	867	1,090
Grab Elongation	ASTM D4632	%	60	50	60	60	60	50	60	60
CBR Puncture Strength	ASTM D6241	lbs	365	295	505	580	365	295	505	580
		kN	1,624	1,312	2,246	2,580	1,624	1,312	2,246	2,580
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	70	70	70	70
Apparent Opening Size ³	ASTM D4751	sieve	70	80	70	80	70	80	70	80
		mm	0.212	0.180	0.212	0.180	0.212	0.180	0.212	0.180
Permittivity	ASTM D4491	sec ⁻¹	2.4	1.0	2.1	1.8	2.4	1.0	2.1	1.8
Water Flow Rate	ASTM D4491	gpm/ft ²	175	70	155	135	175	70	155	135
		Lpm/m ²	7,130	2,850	6,315	5,501	7,130	2,850	6,315	5,501
CORE										
Material ²			HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS	HIPS
Compressive Strength	ASTM D6364	psf	6,000	6,000	6,000	6,000	9,500	9,500	9,500	9,500
	ASTM D1621	kPa	287	287	287	287	455	455	455	455
Thickness	ASTM D1777	in	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		mm	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
In-Plane Flow Rate ⁴	ASTM D4716	gpm/ft	21	21	21	21	21	21	21	21
		Lpm/m	261	261	261	261	261	261	261	261

ROLL DIMENSIONS:

WIDTH	ROLL LENGTH
6"	150'
12"	150' or 500'
18"	150' or 500'
24"	150' or 500'
36"	100'

FITTINGS:

AWD has a full line of fittings that transition collected water from strip drains to standard 4" pipe.

*Product Name Breakdown:
Compressive Strength ← 64 → Geotextile Weight

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² PP = Polypropylene; NPNW = Needle-Punched Nonwoven; SBNW = Spunbonded Nonwoven; HIPS = High Impact Polystyrene

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 0.1.

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SITEDRAIN™ PREFABRICATED HQ DRAINS



SITEDRAIN HQ Series geocomposite combination drain products are composed of a dimpled polymeric core with a geotextile bonded to the dimple side. The geotextile allows water to pass through while retaining backfill materials. The solid core allows water collection from one side and provides a continuous flow path to designated drainage exits. The 24"-wide product combines 12" of high-profile 1"-thick core with 12" of low-profile 7/16"-thick core and includes an integrated transition flange for easy connection to SITEDRAIN geocomposite sheet drain products.

SITEDRAIN HQ Series products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems in applications requiring high strength and high flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY ¹	TEST METHOD	UNIT OF MEASURE	244	246	248
GEOTEXTILE					
Material ²			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	-	3	2	1
Grab Tensile Strength	ASTM D4632	lbs	135	195	245
		N	601	867	1,090
Grab Elongation	ASTM D4632	%	60	60	60
CBR Puncture Strength	ASTM D6241	lbs	365	505	580
		kN	1,624	2,246	2,580
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size ³	ASTM D4751	sieve	70	70	80
		mm	0.212	0.212	0.180
Permittivity	ASTM D4491	sec ⁻¹	2.4	2.1	1.8
Water Flow Rate	ASTM D4491	gpm/ft ²	175	155	135
		Lpm/m ²	7,130	6,315	5,501
CORE					
Material ²			HIPS	HIPS	HIPS
Compressive Strength	ASTM D6364	psf	9,000	9,000	9,000
	ASTM D1621	kPa	431	431	431
Thickness	ASTM D1777	in	0.4 / 1.0	0.4 / 1.0	0.4 / 1.0
		mm	10 / 25.4	10 / 25.4	10 / 25.4
In-Plane Flow Rate ⁴	ASTM D4716	gpm/ft	21	21	21
		Lpm/m	261	261	261

¹ Unless otherwise noted, all physical and performance properties listed are Typical Value or Minimum Average Roll Value (MARV) as defined in ASTM D4439.

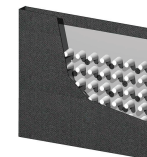
² PP = Polypropylene; NPNW = Needle-Punched Nonwoven; HIPS = High Impact Polystyrene

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 0.1.

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SITEDRAINTM PREFABRICATED HQS DRAINS



SITEDRAIN HQS Series geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in geotextile with an integrated transition flange for connection to SITEDRAIN geocomposite sheet drain products. The geotextile allows water to pass through while retaining backfill materials. The perforated core allows water collection from all sides and provides a continuous flow path to designated drainage exits.

SITEDRAIN HQS Series products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems in applications requiring high strength and high flow capacity. Various geotextile options and product widths are available to meet project-specific requirements.

PROPERTY ¹	TEST METHOD	UNIT OF MEASURE	1240	1260	1280	1840	1860	1880
GEOTEXTILE								
Material ²			PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	-	3	2	1	3	2	1
Grab Tensile Strength	ASTM D4632	lbs	135	195	245	135	195	245
		N	601	867	1,090	601	867	1,090
Grab Elongation	ASTM D4632	%	60	60	60	60	60	60
CBR Puncture Strength	ASTM D6241	lbs	365	505	580	365	505	580
		kN	1,624	2,246	2,580	1,624	2,246	2,580
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	70	70
Apparent Opening Size ³	ASTM D4751	sieve	70	70	80	70	70	80
		mm	0.212	0.212	0.180	0.212	0.212	0.180
Permittivity	ASTM D4491	sec ⁻¹	2.4	2.1	1.8	2.4	2.1	1.8
Water Flow Rate	ASTM D4491	gpm/ft²	175	155	135	175	155	135
		Lpm/m²	7,130	6,315	5,501	7,130	6,315	5,501
CORE								
Material ²			HIPS	HIPS	HIPS	HIPS	HIPS	HIPS
Compressive Strength	ASTM D6364	psf	9,500	9,500	9,500	9,500	9,500	9,500
	ASTM D1621	kPa	455	455	455	455	455	455
Thickness	ASTM D1777	in	1.0	1.0	1.0	1.0	1.0	1.0
		mm	25.4	25.4	25.4	25.4	25.4	25.4
In-Plane Flow Rate ⁴	ASTM D4716	gpm/ft	21	21	21	21	21	21
		Lpm/m	261	261	261	261	261	261

¹ Unless otherwise noted, all physical and performance properties listed are Typical Value or Minimum Average Roll Value (MARV) as defined in ASTM D4439.

² PP = Polypropylene; NPNW = Needle-Punched Nonwoven; HIPS = High Impact Polystyrene

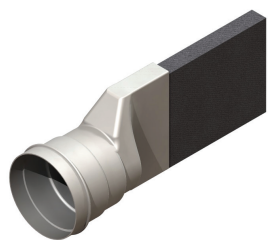
³ Values for AOS represent Maximum Average Roll Value (MaxARV).

⁴ In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 0.1.

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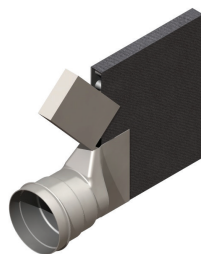
FITTINGS & ACCESSORIES

PIPE OUTLETS: Transition water to 4" smooth or corrugated pipe



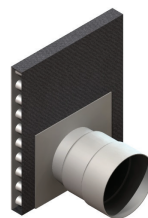
6" End Outlet
10/box

Item: #20005



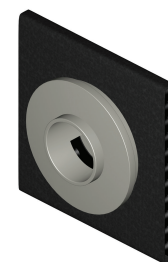
End Outlet
10/box

12" Strip Drain	Item: #20006
18" Strip Drain	Item: #20007
24" Strip Drain	Item: #20008
36" Strip Drain	Item: #20009
Combination Drain:	Item: #20008



Tee Outlet
10/box

6" Strip Drain	Item: #20024
12" Strip Drain	Item: #20015
18" Strip Drain	Item: #20016
24" Strip Drain	Item: #20017
36" Strip Drain	Item: #20018
Combination Drain:	Item: #20019

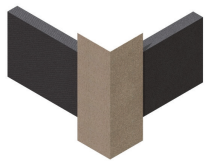


Geo-Outlet
10/box

Item: #20026

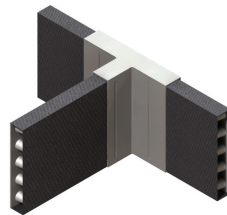
FITTINGS & ACCESSORIES

CONNECTORS:



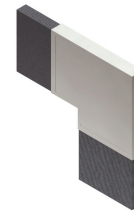
12" Corner Guard
20/box

Item: #20022



6" Tee Connector
10/box

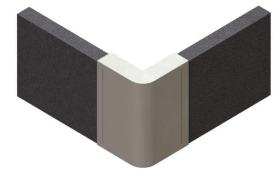
Item: #20014



Step-Down Fittings
10/box

6" Strip Drain
12" Strip Drain

Item: #20012
Item: #20013



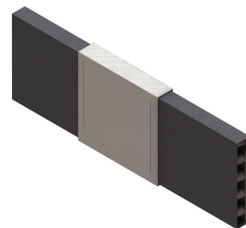
6" Corner Fitting
10/box

Item: #20002



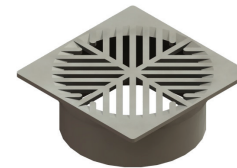
Fitting & Joint Tape
Minimum 1 Roll

Item: #29000



6" Splice Connector
10/box

Item: #20011



Drain Grates
Minimum 1 Unit

3" Pipe Item: #29001
4" Pipe Item: #29002



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