SITEDRAIN™

PREFABRICATED DRAINS

AWD

AMERICAN WICK DRAIN

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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.

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SITEDRAIN™ PRODUCT NAME BREAKDOWN

Compression (psf)	Geotextile	Options
6 =6,000 psf 9 = 9,000 psf 110 = 11,000 psf 180 = 18,000 psf 210 = 21,000 psf 300 = 30,000 psf	The geotextile numeral designates the nominal unit weight of the fabric.	AWD offers alternative builds using customized geotextiles. Contact us for more information.

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SITEDRAIN™ SHEET 60 SERIES

PREFABRICATED SHEET DRAIN

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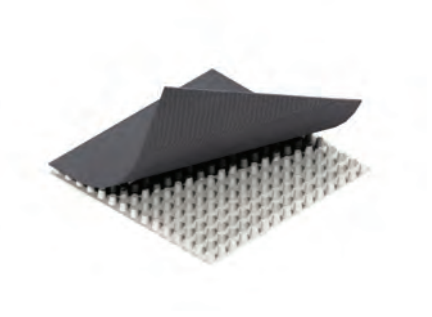

PRODUCT OVERVIEW

SITEDRAIN Sheet 60 Series geocomposite sheet 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.

SITEDRAIN Sheet 60 Series products provide an economical solution for single-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	63	64	64-T	66	66-W	68
GEOTEXTILE								
Material [2]			PP, NPNW	PP, NPNW	PP, SBNW	PP, NPNW	PP, WM	PP, NPNW
Survivability	AASHTO M288	Class	-	3	3	2	-	1
Grab Tensile Strength	ASTM D4632	lbs	100	135	150	195	430 x 240	245
		N	445	601	667	867	1,914 x 1,068	1,090
Grab Elongation	ASTM D4632	%	70	60	50	60	30 x 15	60
CBR Puncture	ASTM D6241	lbs	305	365	295	505	800	580
		N	1,356	1,624	1,312	2,246	3,560	2,580
Trapezoidal Tear	ASTM D4533	lbs	50	60	70	85	180 x 130	100
		N	222	267	310	378	801 x 579	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	90	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70	80	70	50	80
		mm	0.212	0.212	0.180	0.212	0.300	0.180
Permittivity	ASTM D4491	sec^{-1}	2.7	2.4	1.0	2.1	2.7	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	165	175	70	155	195	135
		Lpm / m^2	6,724	7,130	2,850	6,315	7,944	5,501
CORE								
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	6,000	6,000	6,000	6,000	6,000
		kPa	287	287	287	287	287	287
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4	0.4	0.4
		mm	10	10	10	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	15	15	15	15	15
		Lpm/m	186	186	186	186	186	186
COMPOSITE								
Roll Size	MEASURED	ft	4 x 50	4 x 50	4 x 50	4 x 50	4 x 50	4 x 50
			6 x 50	6 x 50	6 x 50	6 x 50	6 x 50	6 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.

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SITEDRAIN™ SHEET 63

PREFABRICATED SHEET DRAIN

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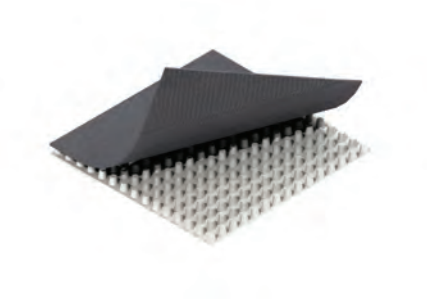

PRODUCT OVERVIEW

SITEDRAIN Sheet 63 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 63 is an economical solution for single-sided subsurface drainage applications requiring moderate strength and high flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	33	14850	
	6 x 50	49	-	

[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; 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.

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SITEDRAIN™ SHEET 64

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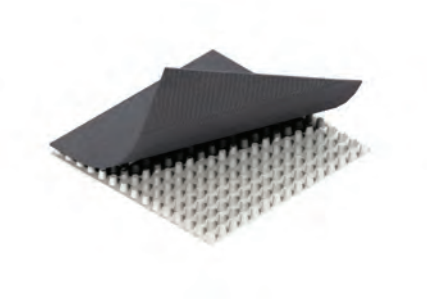

PRODUCT OVERVIEW

SITEDRAIN Sheet 64 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 64 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	34	14810	
	6 x 50	50	14960	

[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; 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.

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SITEDRAIN™ SHEET 64-T

PREFABRICATED SHEET DRAIN

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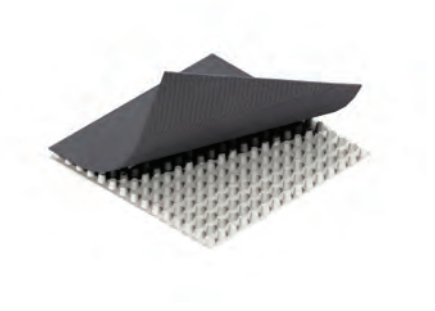

PRODUCT OVERVIEW

SITEDRAIN Sheet 64-T geocomposite drain is composed of a dimpled polymeric core with a spunbonded 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.

SITEDRAIN Sheet 64-T is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and the performance properties of a spunbonded geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	667	578
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	295	276
		N	1,312	1,228
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	60
		mm	0.180	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	34	-	
	6 x 50	50	-	

[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; 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.

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SITEDRAIN™ SHEET 66

PREFABRICATED SHEET DRAIN

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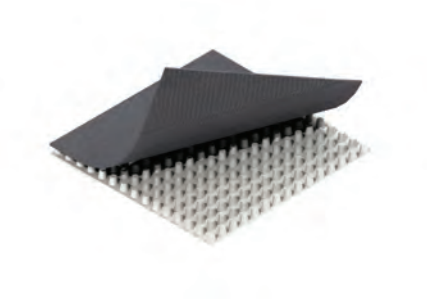

PRODUCT OVERVIEW

SITEDRAIN Sheet 66 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 66 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	37	-	
	6 x 50	53	14980	

[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; 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.

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SITEDRAIN™ SHEET 66-W

PREFABRICATED SHEET DRAIN

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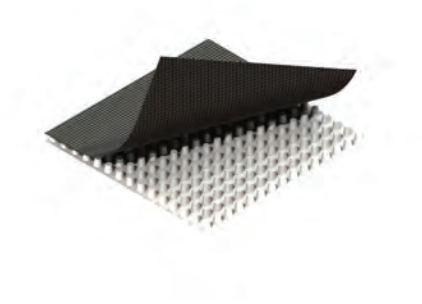

PRODUCT OVERVIEW

SITEDRAIN Sheet 66-W geocomposite drain is composed of a dimpled polymeric core with a woven monofilament 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.

SITEDRAIN Sheet 66-W is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and the performance properties of a woven monofilament geotextile.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, WM	PP, WM
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	430 x 240	365 x 200
		N	1,914 x 1,068	1,624 x 890
Grab Elongation	ASTM D4632	%	30 x 15	24 x 10
CBR Puncture	ASTM D6241	lbs	800	675
		N	3,560	3,004
Trapezoidal Tear	ASTM D4533	lbs	180 x 130	115 x 75
		N	801 x 579	512 x 334
UV Resistance	ASTM D4355	% / 500 Hrs	90	90
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	50	40
		mm	0.300	0.425
Permittivity	ASTM D4491	sec^{-1}	2.7	2.1
Water Flow Rate	ASTM D4491	gpm / ft^2	195	145
		Lpm / m^2	7,944	5,907
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	35	-	
	6 x 50	59	-	

[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; 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.

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SITEDRAIN™ SHEET 68

PREFABRICATED SHEET DRAIN

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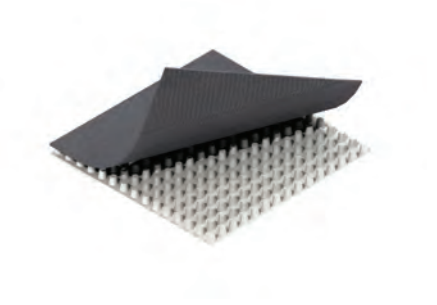

PRODUCT OVERVIEW

SITEDRAIN Sheet 68 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 68 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	40	-	
	6 x 50	56	-	

[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; 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.

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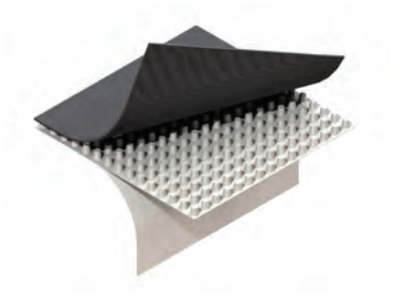
SITEDRAIN™ SHEET 60-B SERIES

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 60-B Series geocomposite sheet drain products are composed of a dimpled polymeric core with a geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 60-B Series products provide an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and additional protection for softer waterproofing membranes. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	63-B	64-B	66-B	68-B
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	6,000	6,000	6,000	6,000
		kPa	287	287	287	287
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4
		mm	10	10	10	10
In-Plane Flow Rate[4]	ASTM D4716	gpm/ft	15	15	15	15
		Lpm/m	186	186	186	186
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.

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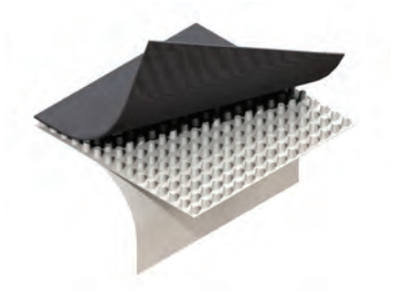
SITEDRAIN™ SHEET 63-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 63-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 63-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and additional protection for softer waterproofing membranes.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	34	-	

[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; 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.

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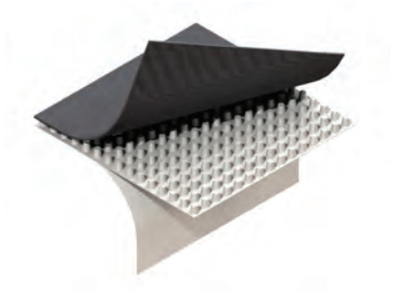
SITEDRAIN™ SHEET 64-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 64-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 64-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	35	-	

[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; 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.

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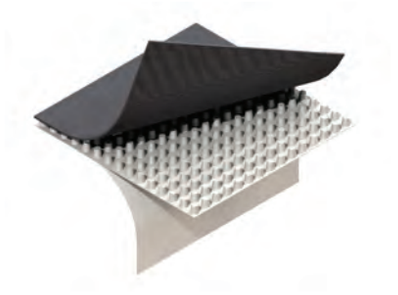
SITEDRAIN™ SHEET 66-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 66-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 66-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	38	-	

[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; 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.

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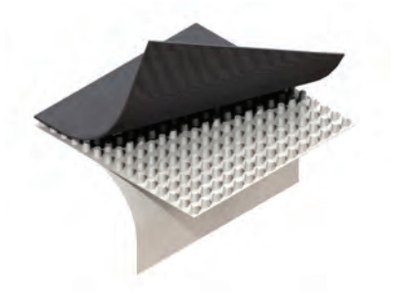
SITEDRAIN™ SHEET 68-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 68-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 68-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	41	-	

[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; 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.

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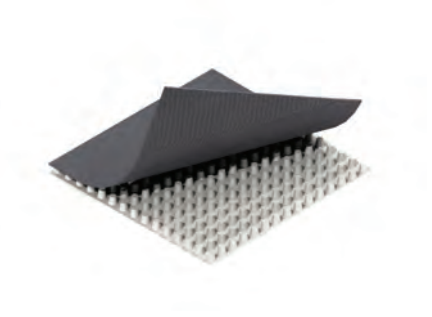
SITEDRAIN™ SHEET 90 SERIES

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 90 Series geocomposite sheet 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.

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

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	93	94	94-T	96	96-W	98
GEOTEXTILE								
Material [2]			PP, NPNW	PP, NPNW	PP, SBNW	PP, NPNW	PP, WM	PP, NPNW
Survivability	AASHTO M288	Class	-	3	3	2	-	1
Grab Tensile Strength	ASTM D4632	lbs	100	135	150	195	430 x 240	245
		N	445	601	667	867	1,914 x 1,068	1,090
Grab Elongation	ASTM D4632	%	70	60	50	60	30 x 15	60
CBR Puncture	ASTM D6241	lbs	305	365	295	505	800	580
		N	1,356	1,624	1,312	2,246	3,560	2,580
Trapezoidal Tear	ASTM D4533	lbs	50	60	70	85	180 x 130	100
		N	222	267	310	378	801 x 579	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	90	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70	80	70	50	80
		mm	0.212	0.212	0.180	0.212	0.300	0.180
Permittivity	ASTM D4491	sec^{-1}	2.7	2.4	1.0	2.1	2.7	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	165	175	70	155	195	135
		Lpm / m^2	6,724	7,130	2,850	6,315	7,944	5,501
CORE								
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	9,000	9,000	9,000	9,000	9,000
		kPa	431	431	431	431	431	431
Thickness	ASTM D5199	in	0.25	0.25	0.25	0.25	0.25	0.25
		mm	6.35	6.35	6.35	6.35	6.35	6.35
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	12	12	12	12	12
		Lpm/m	149	149	149	149	149	149
COMPOSITE								
Roll Size	MEASURED	ft	4 x 50	4 x 50	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.

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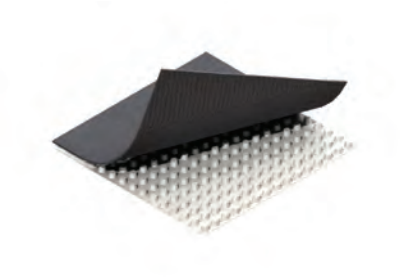
SITEDRAIN™ SHEET 93

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 93 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 93 is an economical solution for single-sided subsurface drainage applications requiring moderate strength and moderate flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	28	16400	

[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; 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.

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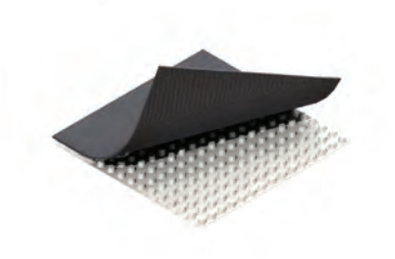
SITEDRAIN™ SHEET 94

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 94 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 94 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	29	10060	

[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; 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.

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SITEDRAIN™ SHEET 94-T

PREFABRICATED SHEET DRAIN

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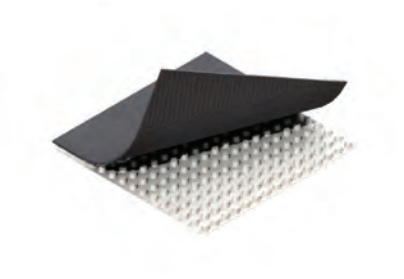

PRODUCT OVERVIEW

SITEDRAIN Sheet 94-T geocomposite drain is composed of a dimpled polymeric core with a spunbonded 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.

SITEDRAIN Sheet 94-T is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and the performance properties of a spunbonded geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	667	578
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	295	276
		N	1,312	1,228
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	60
		mm	0.180	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	29	-	

[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; 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.

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SITEDRAIN™ SHEET 96

PREFABRICATED SHEET DRAIN

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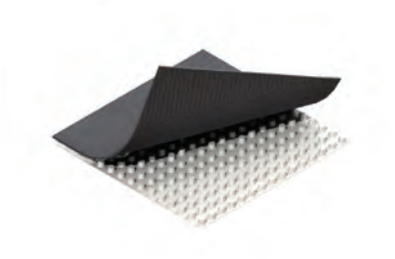

PRODUCT OVERVIEW

SITEDRAIN Sheet 96 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 96 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	32	10070	

[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; 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.

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SITEDRAIN™ SHEET 96-W

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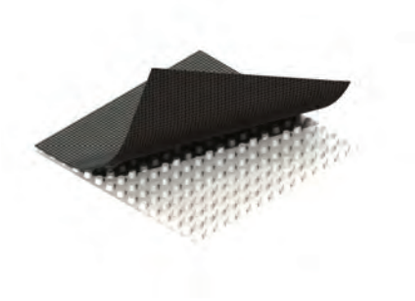

PRODUCT OVERVIEW

SITEDRAIN Sheet 96-W geocomposite drain is composed of a dimpled polymeric core with a woven monofilament 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.

SITEDRAIN Sheet 96-W is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and the performance properties of a woven monofilament geotextile.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, WM	PP, WM
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	430 x 240	365 x 200
		N	1,914 x 1,068	1,624 x 890
Grab Elongation	ASTM D4632	%	30 x 15	24 x 10
CBR Puncture	ASTM D6241	lbs	800	675
		N	3,560	3,004
Trapezoidal Tear	ASTM D4533	lbs	180 x 130	115 x 75
		N	801 x 579	512 x 334
UV Resistance	ASTM D4355	% / 500 Hrs	90	90
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	50	40
		mm	0.300	0.425
Permittivity	ASTM D4491	sec^{-1}	2.7	2.1
Water Flow Rate	ASTM D4491	gpm / ft^2	195	145
		Lpm / m^2	7,944	5,907
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	30	-	

[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; 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.

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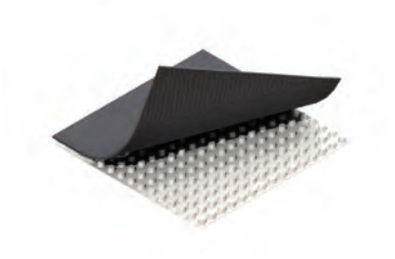

PRODUCT OVERVIEW

SITEDRAIN Sheet 98 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 98 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	35	10080	

[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; 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.

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SITEDRAIN™ SHEET 90-B SERIES

PREFABRICATED SHEET DRAIN

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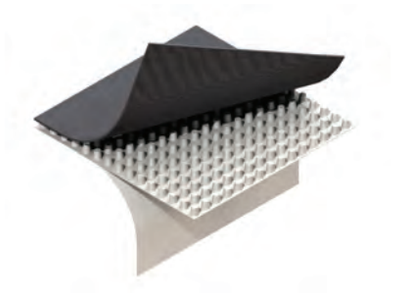

PRODUCT OVERVIEW

SITEDRAIN Sheet 90-B Series geocomposite sheet drain products are composed of a dimpled polymeric core with a geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 90-B Series products provide an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and additional protection for softer waterproofing membranes. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	93-B	94-B	96-B	98-B
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.

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SITEDRAIN™ SHEET 93-B

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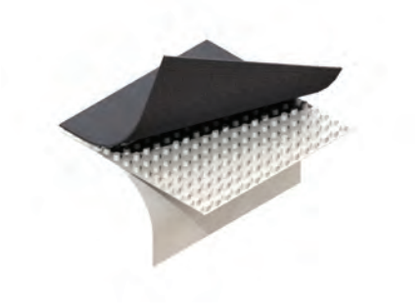

PRODUCT OVERVIEW

SITEDRAIN Sheet 93-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 93-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and additional protection for softer waterproofing membranes.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	29	13210	

[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; 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.

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SITEDRAIN™ SHEET 94-B

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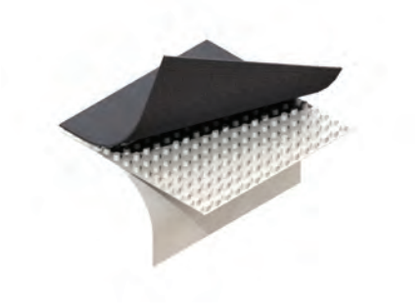

PRODUCT OVERVIEW

SITEDRAIN Sheet 94-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 94-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	30	13220	

[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; 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.

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SITEDRAIN™ SHEET 96-B

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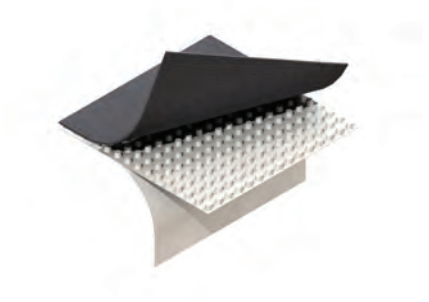

PRODUCT OVERVIEW

SITEDRAIN Sheet 96-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 96-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	33	13230	

[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; 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.

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SITEDRAIN™ SHEET 98-B

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AWD
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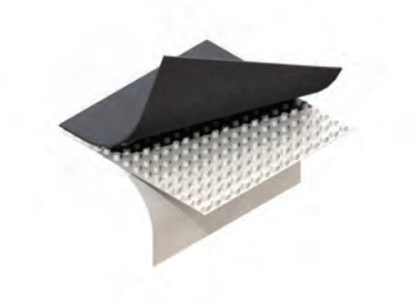

PRODUCT OVERVIEW

SITEDRAIN Sheet 98-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 98-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	36	-	

[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; 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.

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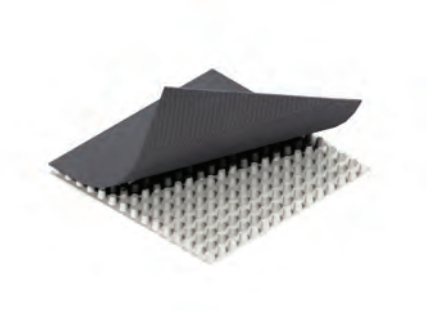
SITEDRAIN™ SHEET 110 SERIES

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 110 Series geocomposite sheet 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.

SITEDRAIN Sheet 110 Series products provide an economical solution for single-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	113	114	114-T	116	116-W	118
GEOTEXTILE								
Material [2]			PP, NPNW	PP, NPNW	PP, SBNW	PP, NPNW	PP, WM	PP, NPNW
Survivability	AASHTO M288	Class	-	3	3	2	-	1
Grab Tensile Strength	ASTM D4632	lbs	100	135	150	195	430 x 240	245
		N	445	601	667	867	1,914 x 1,068	1,090
Grab Elongation	ASTM D4632	%	70	60	50	60	30 x 15	60
CBR Puncture	ASTM D6241	lbs	305	365	295	505	800	580
		N	1,356	1,624	1,312	2,246	3,560	2,580
Trapezoidal Tear	ASTM D4533	lbs	50	60	70	85	180 x 130	100
		N	222	267	310	378	801 x 579	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	90	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70	80	70	50	80
		mm	0.212	0.212	0.180	0.212	0.300	0.180
Permittivity	ASTM D4491	sec^{-1}	2.7	2.4	1.0	2.1	2.7	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	165	175	70	155	195	135
		Lpm / m^2	6,724	7,130	2,850	6,315	7,944	5,501
CORE								
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	11,000	11,000	11,000	11,000	11,000
		kPa	527	527	527	527	527	527
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4	0.4	0.4
		mm	10	10	10	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	18	18	18	18	18
		Lpm/m	224	224	224	224	224	224
COMPOSITE								
Roll Size	MEASURED	ft	4 x 50	4 x 50	4 x 50	4 x 50	4 x 50	4 x 50
			-	6 x 50	6 x 50	6 x 50	6 x 50	6 x 50
			-	8 x 50	8 x 50	8 x 50	8 x 50	8 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.

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SITEDRAIN™ SHEET 113

PREFABRICATED SHEET DRAIN

AWD
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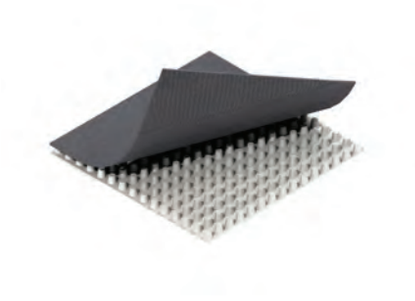

PRODUCT OVERVIEW

SITEDRAIN Sheet 113 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 113 is an economical solution for single-sided subsurface drainage applications requiring moderate strength and high flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	38	10000	

[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; 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.

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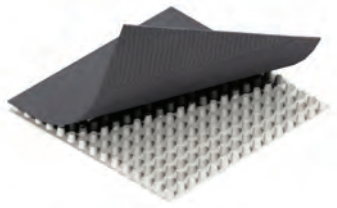
SITEDRAIN™ SHEET 114

PREFABRICATED SHEET DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 114 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 114 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	40	10001	
	6 x 50	51	10005	
	8 x 50	68	14640	

[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; 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.

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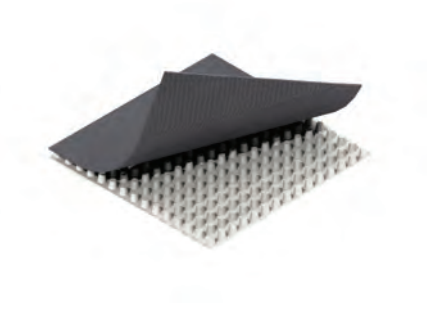
SITEDRAIN™ SHEET 114-T

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 114-T geocomposite drain is composed of a dimpled polymeric core with a spunbonded 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.

SITEDRAIN Sheet 114-T is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and the performance properties of a spunbonded geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	667	578
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	295	276
		N	1,312	1,228
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	60
		mm	0.180	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	40	-	
	6 x 50	51	-	
	8 x 50	68	-	

[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; 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.

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SITEDRAIN™ SHEET 116

PREFABRICATED SHEET DRAIN

AWD
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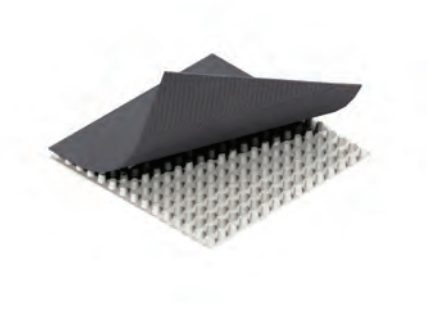

PRODUCT OVERVIEW

SITEDRAIN Sheet 116 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 116 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	43	10002	
	6 x 50	54	10006	
	8 x 50	72	-	

[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; 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.

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SITEDRAIN™ SHEET 116-W

PREFABRICATED SHEET DRAIN

AWD
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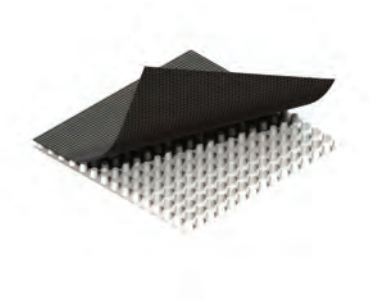

PRODUCT OVERVIEW

SITEDRAIN Sheet 116-W geocomposite drain is composed of a dimpled polymeric core with a woven monofilament 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.

SITEDRAIN Sheet 116-W is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and the performance properties of a woven monofilament geotextile.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, WM	PP, WM
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	430 x 240	365 x 200
		N	1,914 x 1,068	1,624 x 890
Grab Elongation	ASTM D4632	%	30 x 15	24 x 10
CBR Puncture	ASTM D6241	lbs	800	675
		N	3,560	3,004
Trapezoidal Tear	ASTM D4533	lbs	180 x 130	115 x 75
		N	801 x 579	512 x 334
UV Resistance	ASTM D4355	% / 500 Hrs	90	90
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	50	40
		mm	0.300	0.425
Permittivity	ASTM D4491	sec^{-1}	2.7	2.1
Water Flow Rate	ASTM D4491	gpm / ft^2	195	145
		Lpm / m^2	7,944	5,907
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	41	-	
	6 x 50	60	-	
	8 x 50	80	-	

[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; 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.

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SITEDRAIN™ SHEET 118

PREFABRICATED SHEET DRAIN

AWD
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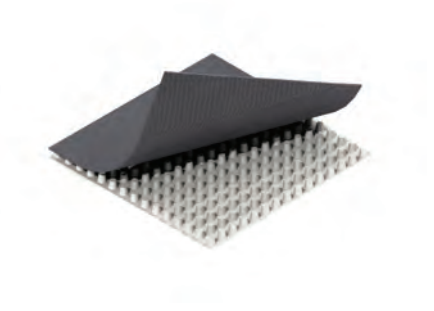

PRODUCT OVERVIEW

SITEDRAIN Sheet 118 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 118 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	46	10003	
	6 x 50	57	-	
	8 x 50	76	-	

[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; 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.

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SITEDRAIN™ SHEET 110-B SERIES

PREFABRICATED SHEET DRAIN

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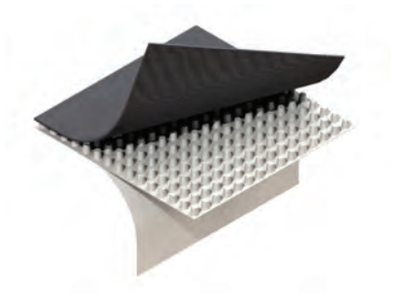

PRODUCT OVERVIEW

SITEDRAIN Sheet 110-B Series geocomposite sheet drain products are composed of a dimpled polymeric core with a geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 110-B Series products provide an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and additional protection for softer waterproofing membranes. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	113-B	114-B	116-B	118-B
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	11,000	11,000	11,000	11,000
		kPa	527	527	527	527
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4
		mm	10	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	18	18	18
		Lpm/m	224	224	224	224
COMPOSITE						
Roll Size	MEASURED	ft	4 x 50	4 x 50	4 x 50	4 x 50
			-	6 x 50	6 x 50	6 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.

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SITEDRAIN™ SHEET 113-B

PREFABRICATED SHEET DRAIN

AWD
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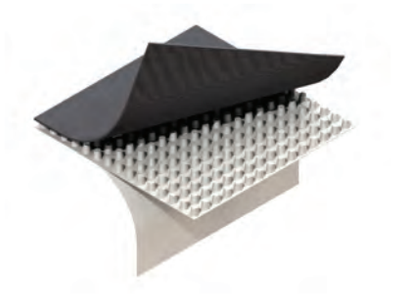

PRODUCT OVERVIEW

SITEDRAIN Sheet 113-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 113-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and additional protection for softer waterproofing membranes.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	39	14730	

[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; 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.

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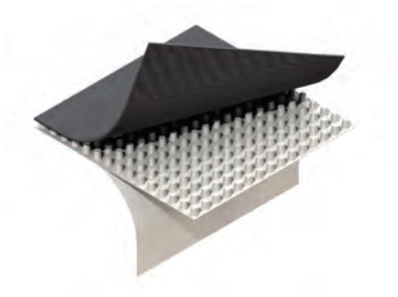
SITEDRAIN™ SHEET 114-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 114-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 114-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	41	-	
	6 x 50	52	-	

[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; 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.

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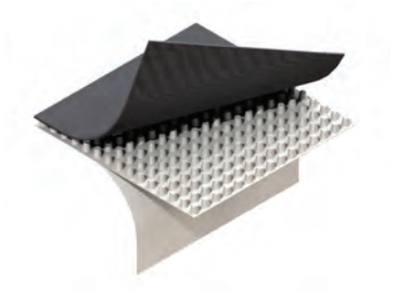
SITEDRAIN™ SHEET 116-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 116-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 116-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	44	-	
	6 x 50	55	-	

[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; 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.

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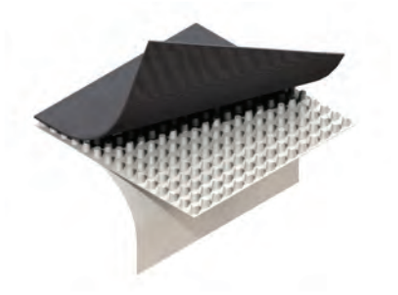
SITEDRAIN™ SHEET 118-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 118-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 118-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	47	-	
	6 x 50	58	-	

[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; 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.

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SITEDRAIN™ SHEET 180 SERIES

PREFABRICATED SHEET DRAIN

AWD
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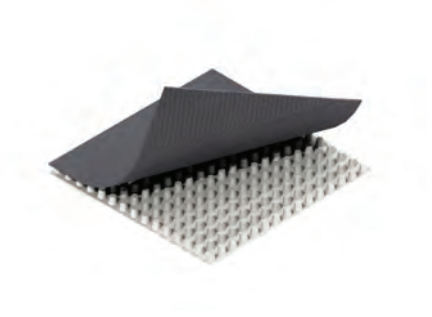

PRODUCT OVERVIEW

SITEDRAIN Sheet 180 Series geocomposite sheet 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.

SITEDRAIN Sheet 180 Series products provide an economical solution for single-sided subsurface drainage 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	183	184	184-T	186	186-W	188
GEOTEXTILE								
Material [2]			PP, NPNW	PP, NPNW	PP, SBNW	PP, NPNW	PP, WM	PP, NPNW
Survivability	AASHTO M288	Class	-	3	3	2	-	1
Grab Tensile Strength	ASTM D4632	lbs	100	135	150	195	430 x 240	245
		N	445	601	667	867	1,914 x 1,068	1,090
Grab Elongation	ASTM D4632	%	70	60	50	60	30 x 15	60
CBR Puncture	ASTM D6241	lbs	305	365	295	505	800	580
		N	1,356	1,624	1,312	2,246	3,560	2,580
Trapezoidal Tear	ASTM D4533	lbs	50	60	70	85	180 x 130	100
		N	222	267	310	378	801 x 579	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	90	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70	80	70	50	80
		mm	0.212	0.212	0.180	0.212	0.300	0.180
Permittivity	ASTM D4491	sec^{-1}	2.7	2.4	1.0	2.1	2.7	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	165	175	70	155	195	135
		Lpm / m^2	6,724	7,130	2,850	6,315	7,944	5,501
CORE								
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	18,000	18,000	18,000	18,000	18,000
		kPa	862	862	862	862	862	862
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4	0.4	0.4
		mm	10	10	10	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21	21	21	21
		Lpm/m	261	261	261	261	261	261
COMPOSITE								
Roll Size	MEASURED	ft	4 x 50	4 x 50	4 x 50	4 x 50	4 x 50	4 x 50
			-	6 x 50	6 x 50	6 x 50	6 x 50	6 x 50
			-	8 x 50	8 x 50	8 x 50	8 x 50	8 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.

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SITEDRAIN™ SHEET 183

PREFABRICATED SHEET DRAIN

AWD
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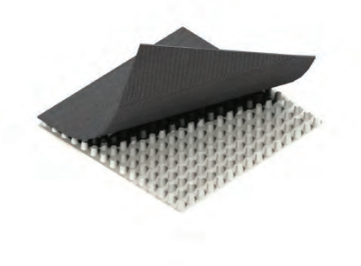

PRODUCT OVERVIEW

SITEDRAIN Sheet 183 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 183 is an economical solution for single-sided subsurface drainage applications requiring high strength and high flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	46	10090	

[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; 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.

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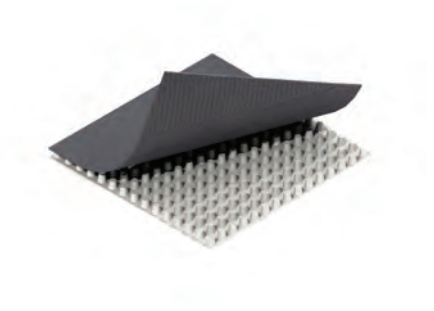
SITEDRAIN™ SHEET 184

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 184 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 184 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	47	10100	
	6 x 50	65	14320	
	8 x 50	87	13000	

[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; 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.

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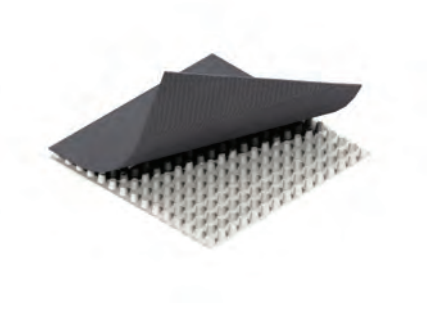
SITEDRAIN™ SHEET 184-T

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 184-T geocomposite drain is composed of a dimpled polymeric core with a spunbonded 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.

SITEDRAIN Sheet 184-T is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and the performance properties of a spunbonded geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	667	578
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	295	276
		N	1,312	1,228
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	60
		mm	0.180	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	47	10140	
	6 x 50	65	-	
	8 x 50	87	-	

[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; 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.

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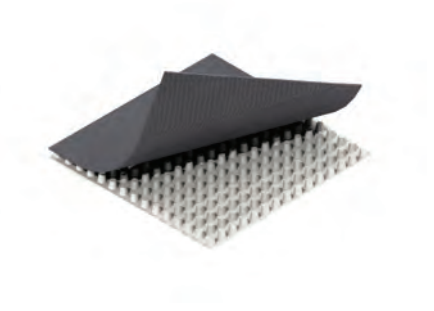
SITEDRAIN™ SHEET 186

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 186 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 186 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	50	10110	
	6 x 50	68	16380	
	8 x 50	91	13040	

[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; 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.

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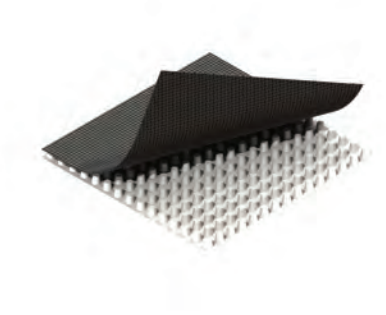
SITEDRAIN™ SHEET 186-W

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 186-W geocomposite drain is composed of a dimpled polymeric core with a woven monofilament 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.

SITEDRAIN Sheet 186-W is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and the performance properties of a woven monofilament geotextile.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, WM	PP, WM
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	430 x 240	365 x 200
		N	1,914 x 1,068	1,624 x 890
Grab Elongation	ASTM D4632	%	30 x 15	24 x 10
CBR Puncture	ASTM D6241	lbs	800	675
		N	3,560	3,004
Trapezoidal Tear	ASTM D4533	lbs	180 x 130	115 x 75
		N	801 x 579	512 x 334
UV Resistance	ASTM D4355	% / 500 Hrs	90	90
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	50	40
		mm	0.300	0.425
Permittivity	ASTM D4491	sec^{-1}	2.7	2.1
Water Flow Rate	ASTM D4491	gpm / ft^2	195	145
		Lpm / m^2	7,944	5,907
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	48	16420	
	6 x 50	74	16370	
	8 x 50	99	-	

[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; 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.

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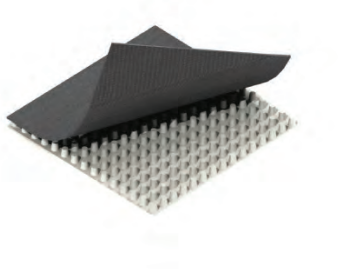
SITEDRAIN™ SHEET 188

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 188 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 188 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	53	16410	
	6 x 50	71	15900	
	8 x 50	95	-	

[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; 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.

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SITEDRAIN™ SHEET 180-B SERIES

PREFABRICATED SHEET DRAIN

AWD
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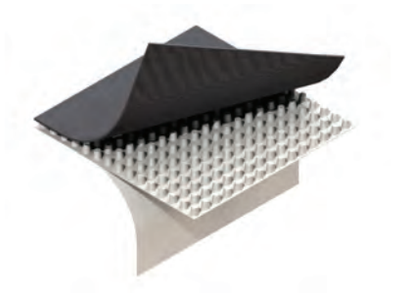

PRODUCT OVERVIEW

SITEDRAIN Sheet 180-B Series geocomposite sheet drain products are composed of a dimpled polymeric core with a geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 180-B Series products provide an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and additional protection for softer waterproofing membranes. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	183-B	184-B	186-B	188-B
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	18,000	18,000	18,000	18,000
		kPa	862	862	862	862
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4
		mm	10	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21	21
		Lpm/m	261	261	261	261
COMPOSITE						
Roll Size	MEASURED	ft	4 x 50	4 x 50	4 x 50	4 x 50
			-	6 x 50	6 x 50	6 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.

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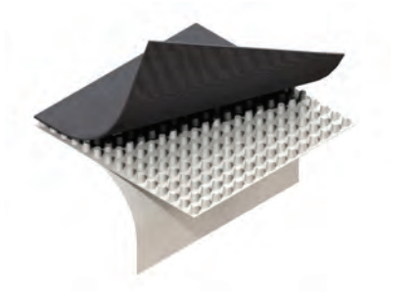
SITEDRAIN™ SHEET 183-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 183-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 183-B is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and additional protection for softer waterproofing membranes.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	47	13180	

[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; 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.

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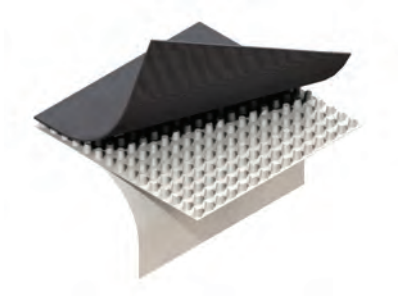
SITEDRAIN™ SHEET 184-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 184-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 184-B is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	48	13190	
	6 x 50	66	11810	

[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; 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.

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SITEDRAIN™ SHEET 186-B

PREFABRICATED SHEET DRAIN

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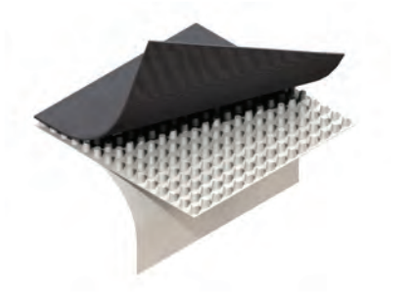

PRODUCT OVERVIEW

SITEDRAIN Sheet 186-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 186-B is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	46	10090	
	6 x 50	51	13200	

[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; 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.

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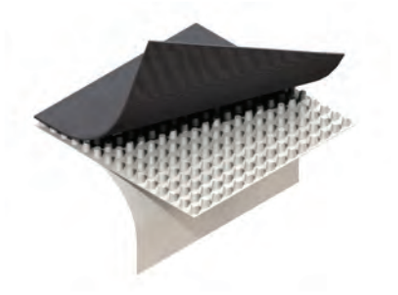
SITEDRAIN™ SHEET 188-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 188-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 188-B is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	54	12610	
	6 x 50	72	-	

[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; 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.

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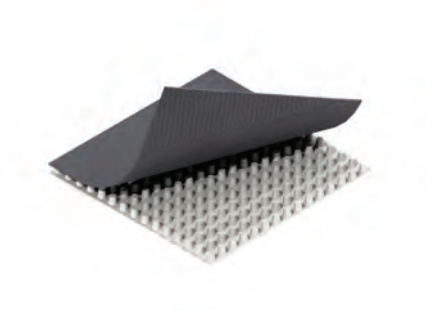
SITEDRAIN™ SHEET 210 SERIES

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 210 Series geocomposite sheet 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.

SITEDRAIN Sheet 210 Series products provide an economical solution for single-sided subsurface drainage applications requiring extremely high strength and moderate flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	213	214	214-T	216	216-W	218
GEOTEXTILE								
Material [2]			PP, NPNW	PP, NPNW	PP, SBNW	PP, NPNW	PP, WM	PP, NPNW
Survivability	AASHTO M288	Class	-	3	3	2	-	1
Grab Tensile Strength	ASTM D4632	lbs	100	135	150	195	430 x 240	245
		N	445	601	667	867	1,914 x 1,068	1,090
Grab Elongation	ASTM D4632	%	70	60	50	60	30 x 15	60
CBR Puncture	ASTM D6241	lbs	305	365	295	505	800	580
		N	1,356	1,624	1,312	2,246	3,560	2,580
Trapezoidal Tear	ASTM D4533	lbs	50	60	70	85	180 x 130	100
		N	222	267	310	378	801 x 579	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	90	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70	80	70	50	80
		mm	0.212	0.212	0.180	0.212	0.300	0.180
Permittivity	ASTM D4491	sec^{-1}	2.7	2.4	1.0	2.1	2.7	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	165	175	70	155	195	135
		Lpm / m^2	6,724	7,130	2,850	6,315	7,944	5,501
CORE								
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	21,000	21,000	21,000	21,000	21,000
		kPa	1,005	1,005	1,005	1,005	1,005	1,005
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4	0.4	0.4
		mm	10	10	10	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21	21	21	21
		Lpm/m	261	261	261	261	261	261
COMPOSITE								
Roll Size	MEASURED	ft	-	4 x 50	4 x 50	4 x 50	-	4 x 50
			6 x 50	6 x 50	6 x 50	6 x 50	6 x 50	6 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.

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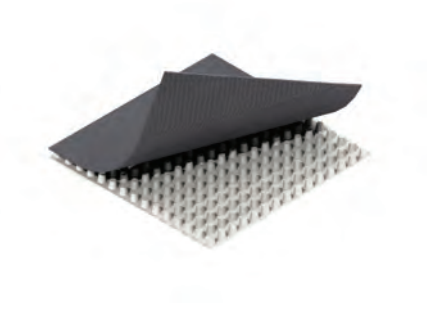
SITEDRAIN™ SHEET 213

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 213 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 213 is an economical solution for single-sided subsurface drainage applications requiring moderate strength and high flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	18,900
		kPa	1,005	905
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	49	-	

[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; 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.

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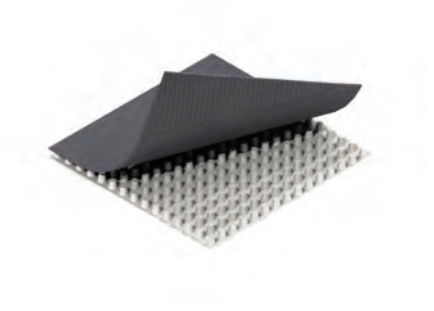
SITEDRAIN™ SHEET 214

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 214 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 214 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	50	-	
	6 x 50	70	-	

[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; 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.

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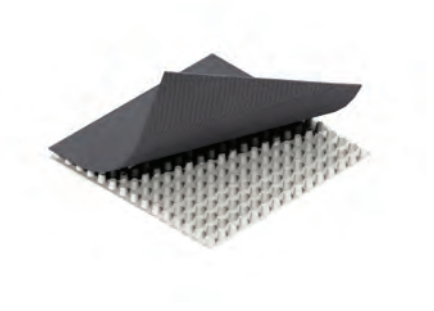
SITEDRAIN™ SHEET 214-T

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 214-T geocomposite drain is composed of a dimpled polymeric core with a spunbonded 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.

SITEDRAIN Sheet 214-T is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and the performance properties of a spunbonded geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	667	578
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	295	276
		N	1,312	1,228
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	60
		mm	0.180	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	50	-	
	6 x 50	70	-	

[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; 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.

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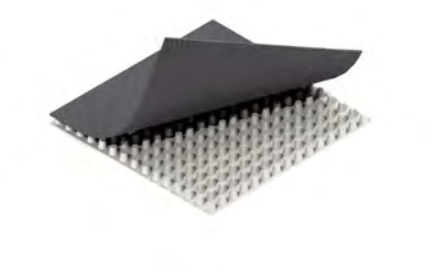
SITEDRAIN™ SHEET 216

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 216 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 216 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	53	16530	
	6 x 50	73	-	

[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; 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.

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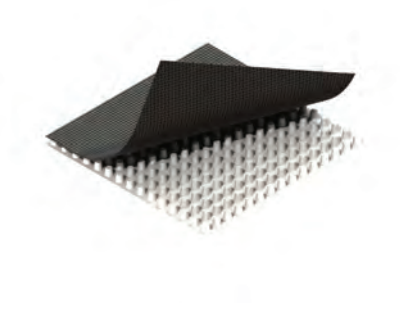
SITEDRAIN™ SHEET 216-W

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 216-W geocomposite drain is composed of a dimpled polymeric core with a woven monofilament 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.

SITEDRAIN Sheet 216-W is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and the performance properties of a woven monofilament geotextile.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, WM	PP, WM
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	430 x 240	365 x 200
		N	1,914 x 1,068	1,624 x 890
Grab Elongation	ASTM D4632	%	30 x 15	24 x 10
CBR Puncture	ASTM D6241	lbs	800	675
		N	3,560	3,004
Trapezoidal Tear	ASTM D4533	lbs	180 x 130	115 x 75
		N	801 x 579	512 x 334
UV Resistance	ASTM D4355	% / 500 Hrs	90	90
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	50	40
		mm	0.300	0.425
Permittivity	ASTM D4491	sec^{-1}	2.7	2.1
Water Flow Rate	ASTM D4491	gpm / ft^2	195	145
		Lpm / m^2	7,944	5,907
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	6 x 50	79	14360	

[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; 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.

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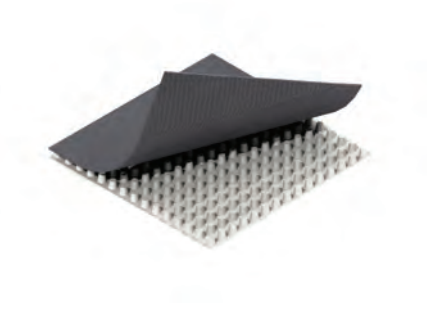
SITEDRAIN™ SHEET 218

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 218 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 218 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	56	14990	
	6 x 50	76	-	

[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; 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.

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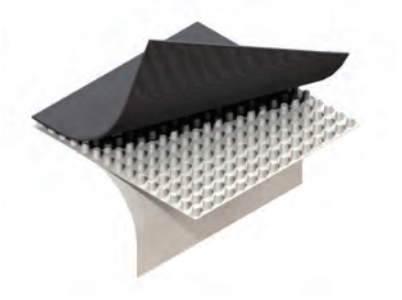
SITEDRAIN™ SHEET 210-B SERIES

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 210-B Series geocomposite sheet drain products are composed of a dimpled polymeric core with a geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 210-B Series products provide an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and additional protection for softer waterproofing membranes. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	213-B	214-B	216-B	216-WB	218-B
GEOTEXTILE							
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW	PP, WM	PP, NPNW
Survivability	AASHTO M288	Class	-	3	2	-	1
Grab Tensile Strength	ASTM D4632	lbs	100	135	195	430 x 240	245
		N	445	601	867	1,914 x 1,068	1,090
Grab Elongation	ASTM D4632	%	70	60	60	30 x 15	60
CBR Puncture	ASTM D6241	lbs	305	365	505	800	580
		N	1,356	1,624	2,246	3,560	2,580
Trapezoidal Tear	ASTM D4533	lbs	50	60	85	180 x 130	100
		N	222	267	378	801 x 579	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	90	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70	70	50	80
		mm	0.212	0.212	0.212	0.300	0.180
Permittivity	ASTM D4491	sec^{-1}	2.7	2.4	2.1	2.7	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	165	175	155	195	135
		Lpm / m^2	6,724	7,130	6,315	7,944	5,501
CORE							
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	21,000	21,000	21,000	21,000
		kPa	1,005	1,005	1,005	1,005	1,005
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4	0.4
		mm	10	10	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21	21	21
		Lpm/m	261	261	261	261	261
COMPOSITE							
Roll Size	MEASURED	ft	4 x 50	4 x 50	4 x 50	-	4 x 50
			-	6 x 50	6 x 50	6 x 50	6 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.

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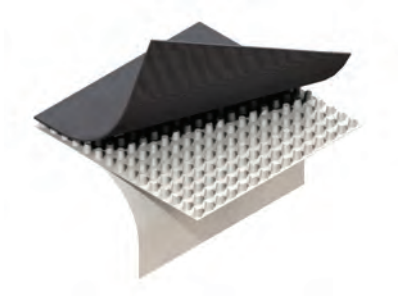
SITEDRAIN™ SHEET 213-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 213-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 213-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and additional protection for softer waterproofing membranes.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	18,900
		kPa	1,005	905
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	50	-	

[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; 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.

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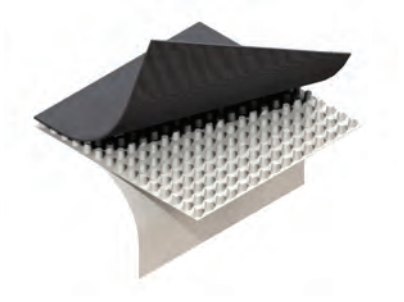
SITEDRAIN™ SHEET 214-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 214-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 214-B is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	51	-	
	6 x 50	71	-	

[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; 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.

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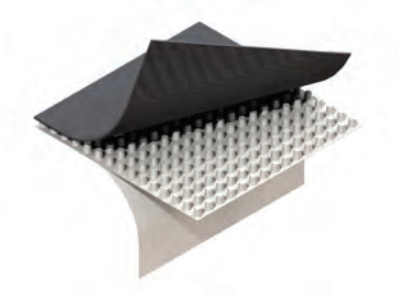
SITEDRAIN™ SHEET 216-WB

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 216-WB geocomposite drain is composed of a dimpled polymeric core with a woven monofilament geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 216-WB is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, additional protection for softer waterproofing membranes, and the performance properties of a woven monofilament geotextile.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, WM	PP, WM
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	430 x 240	365 x 200
		N	1,914 x 1,068	1,624 x 890
Grab Elongation	ASTM D4632	%	30 x 15	24 x 10
CBR Puncture	ASTM D6241	lbs	800	675
		N	3,560	3,004
Trapezoidal Tear	ASTM D4533	lbs	180 x 130	115 x 75
		N	801 x 579	512 x 334
UV Resistance	ASTM D4355	% / 500 Hrs	90	90
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	50	40
		mm	0.300	0.425
Permittivity	ASTM D4491	sec^{-1}	2.7	2.1
Water Flow Rate	ASTM D4491	gpm / ft^2	195	145
		Lpm / m^2	7,944	5,907
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	6 x 50	80	16390	

[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; 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.

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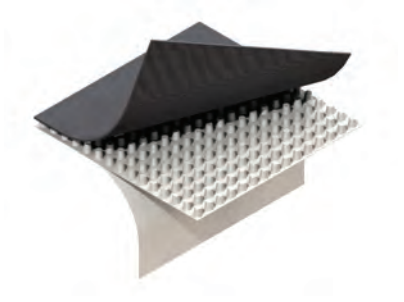
SITEDRAIN™ SHEET 216-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 216-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 216-B is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	54	-	
	6 x 50	74	-	

[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; 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.

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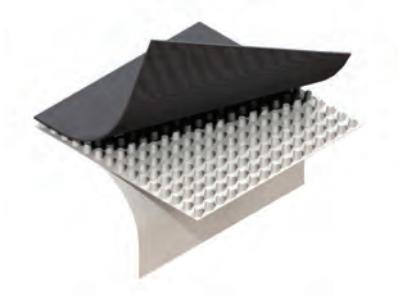
SITEDRAIN™ SHEET 218-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 218-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.SITEDRAIN Sheet 218-B is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	57	-	
	6 x 50	77	-	

[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; 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.

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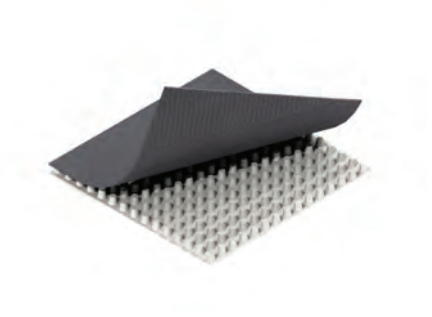
SITEDRAIN™ SHEET 300 SERIES

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 300 Series geocomposite sheet 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.

SITEDRAIN Sheet 300 Series products provide an economical solution for single-sided subsurface drainage applications requiring very high strength and moderate flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	303	304	304-T	306	306-W	308
GEOTEXTILE								
Material [2]			PP, NPNW	PP, NPNW	PP, SBNW	PP, NPNW	PP, WM	PP, NPNW
Survivability	AASHTO M288	Class	-	3	3	2	-	1
Grab Tensile Strength	ASTM D4632	lbs	100	135	150	195	430 x 240	245
		N	445	601	667	867	1,914 x 1,068	1,090
Grab Elongation	ASTM D4632	%	70	60	50	60	30 x 15	60
CBR Puncture	ASTM D6241	lbs	305	365	295	505	800	580
		N	1,356	1,624	1,312	2,246	3,560	2,580
Trapezoidal Tear	ASTM D4533	lbs	50	60	70	85	180 x 130	100
		N	222	267	310	378	801 x 579	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	90	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70	80	70	50	80
		mm	0.212	0.212	0.180	0.212	0.300	0.180
Permittivity	ASTM D4491	sec^{-1}	2.7	2.4	1.0	2.1	2.7	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	165	175	70	155	195	135
		Lpm / m^2	6,724	7,130	2,850	6,315	7,944	5,501
CORE								
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	30,000	30,000	30,000	30,000	30,000
		kPa	1,436	1,436	1,436	1,436	1,436	1,436
Thickness	ASTM D5199	in	0.25	0.25	0.25	0.25	0.25	0.25
		mm	6.35	6.35	6.35	6.35	6.35	6.35
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	13	13	13	13	13
		Lpm/m	161	161	161	161	161	161
COMPOSITE								
Roll Size	MEASURED	ft	4 x 50	4 x 50	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.

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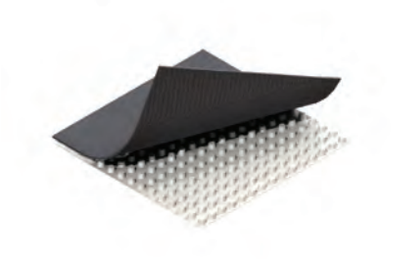
SITEDRAIN™ SHEET 303

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 303 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 303 is an economical solution for single-sided subsurface drainage applications requiring very high strength and moderate flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	50	10150	

[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; 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.

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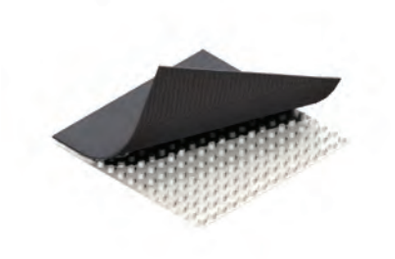
SITEDRAIN™ SHEET 304

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 304 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 304 is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	51	10160	

[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; 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.

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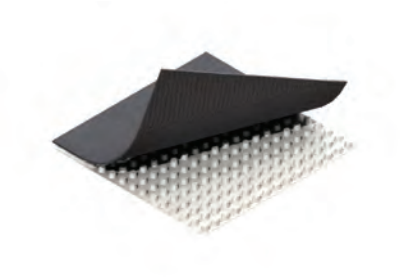
SITEDRAIN™ SHEET 304-T

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 304-T geocomposite drain is composed of a dimpled polymeric core with a spunbonded 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.

SITEDRAIN Sheet 304-T is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and the performance properties of a spunbonded geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	667	578
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	295	276
		N	1,312	1,228
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	60
		mm	0.180	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	51	10200	

[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; 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.

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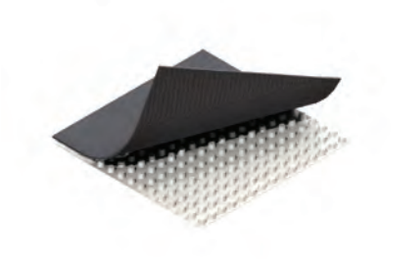
SITEDRAIN™ SHEET 306

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 306 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 306 is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	54	10170	

[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; 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.

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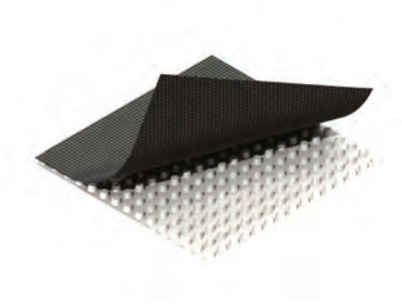
SITEDRAIN™ SHEET 306-W

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 306-W geocomposite drain is composed of a dimpled polymeric core with a woven monofilament 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.

SITEDRAIN Sheet 306-W is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and the performance properties of a woven monofilament geotextile.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, WM	PP, WM
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	430 x 240	365 x 200
		N	1,914 x 1,068	1,624 x 890
Grab Elongation	ASTM D4632	%	30 x 15	24 x 10
CBR Puncture	ASTM D6241	lbs	800	675
		N	3,560	3,004
Trapezoidal Tear	ASTM D4533	lbs	180 x 130	115 x 75
		N	801 x 579	512 x 334
UV Resistance	ASTM D4355	% / 500 Hrs	90	90
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	50	40
		mm	0.300	0.425
Permittivity	ASTM D4491	sec^{-1}	2.7	2.1
Water Flow Rate	ASTM D4491	gpm / ft^2	195	145
		Lpm / m^2	7,944	5,907
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	52	10190	

[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; 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.

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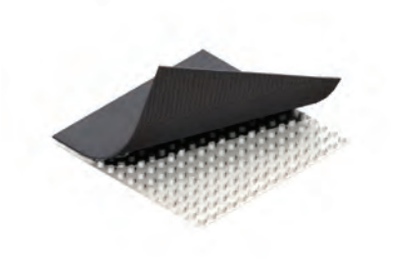
SITEDRAIN™ SHEET 308

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 308 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 308 is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	57	10180	

[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; 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.

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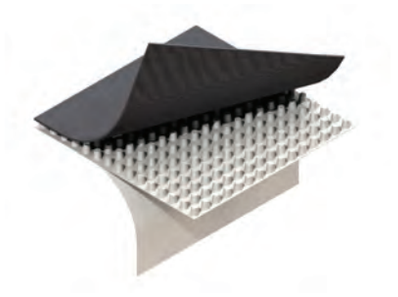
SITEDRAIN™ SHEET 300-B SERIES

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 300-B Series geocomposite sheet drain products are composed of a dimpled polymeric core with a geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.

SITEDRAIN Sheet 300-B Series products provide an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and additional protection for softer waterproofing membranes. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	303-B	304-B	306-B	308-B
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	30,000	30,000	30,000	30,000
		kPa	1,436	1,436	1,436	1,436
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	13	13	13	13
		Lpm/m	161	161	161	161
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.

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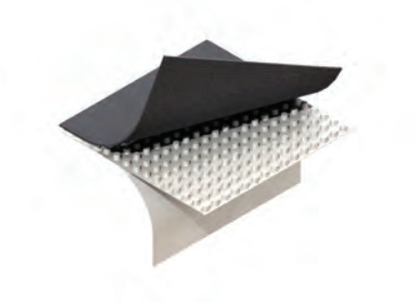
SITEDRAIN™ SHEET 303-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 303-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 303-B is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and additional protection for softer waterproofing membranes.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	51	-	

[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; 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.

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SITEDRAIN™ SHEET 304-B

PREFABRICATED SHEET DRAIN

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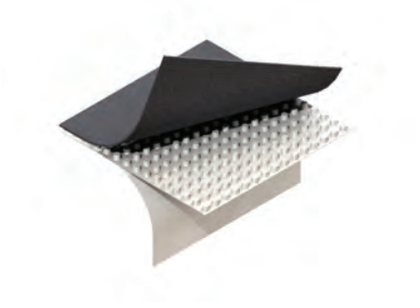

PRODUCT OVERVIEW

SITEDRAIN Sheet 304-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 304-B is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	52	-	

[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; 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.

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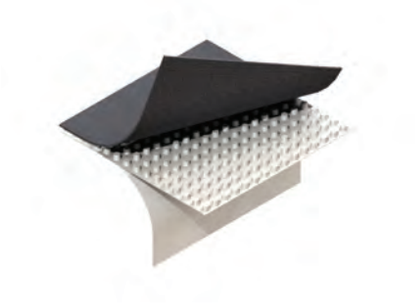
SITEDRAIN™ SHEET 306-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 306-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes.SITEDRAIN Sheet 306-B is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	55	-	

[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; 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.

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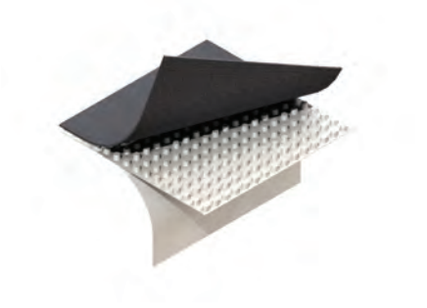
SITEDRAIN™ SHEET 308-B

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 308-B geocomposite drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. SITEDRAIN Sheet 308-B is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	58	-	

[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; 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.

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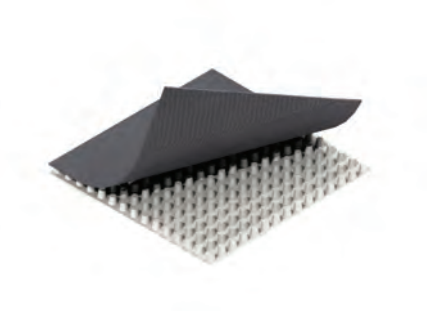
SITEDRAIN™ SHEET 330 SERIES

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 330 Series geocomposite sheet 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.

SITEDRAIN Sheet 330 Series products provide an economical solution for single-sided subsurface drainage applications requiring very high strength and high flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	334	334-T	336	336-W	338
GEOTEXTILE							
Material [2]			PP, NPNW	PP, SBNW	PP, NPNW	PP, WM	PP, NPNW
Survivability	AASHTO M288	Class	3	3	2	-	1
Grab Tensile Strength	ASTM D4632	lbs	135	150	195	430 x 240	245
		N	601	667	867	1,914 x 1,068	1,090
Grab Elongation	ASTM D4632	%	60	50	60	30 x 15	60
CBR Puncture	ASTM D6241	lbs	365	295	505	800	580
		N	1,624	1,312	2,246	3,560	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	70	85	180 x 130	100
		N	267	310	378	801 x 579	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	90	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	80	70	50	80
		mm	0.212	0.180	0.212	0.300	0.180
Permittivity	ASTM D4491	sec^{-1}	2.4	1.0	2.1	2.7	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	175	70	155	195	135
		Lpm / m^2	7,130	2,850	6,315	7,944	5,501
CORE							
Compressive Strength	ASTM D6364 ASTM D1621	psf	33,000	33,000	33,000	33,000	33,000
		kPa	1,676	1,676	1,676	1,676	1,676
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4	0.4
		mm	10	10	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	18	18	18	18
		Lpm/m	223	223	223	223	223
COMPOSITE							
Roll Size	MEASURED	ft	6 x 50	6 x 50	6 x 50	6 x 50	6 x 50
			8 x 50	8 x 50	8 x 50	8 x 50	8 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.

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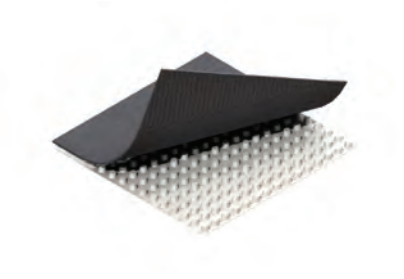
SITEDRAIN™ SHEET 334

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 334 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 334 is an economical solution for single-sided subsurface drainage applications requiring very high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	33,000	-
		kPa	1,676	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	223	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs) [5]	AWD Item Code	
	6 x 50	83	-	
	8 x 50	111	-	

[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.
[5] Approximate packaged roll weight.

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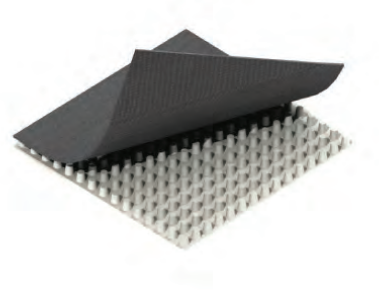
SITEDRAIN™ SHEET 334-T

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 334-T geocomposite drain is composed of a dimpled polymeric core with a spunbonded 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.

SITEDRAIN Sheet 334-T is an economical solution for single-sided subsurface drainage applications requiring very high strength, high flow capacity, and the performance properties of a spunbonded geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	667	578
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	295	276
		N	1,312	1,228
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	60
		mm	0.180	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	33,000	-
		kPa	1,676	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	223	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs) [5]	AWD Item Code	
	6 x 50	88	-	
	8 x 50	111	-	

[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; 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.
[5] Approximate packaged roll weight.

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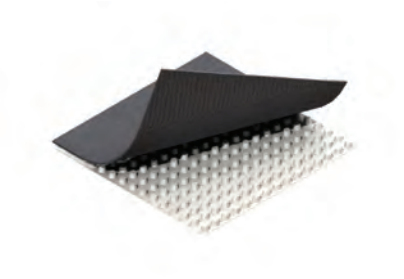
SITEDRAIN™ SHEET 336

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 336 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 336 is an economical solution for single-sided subsurface drainage applications requiring very high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	33,000	-
		kPa	1,676	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	223	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs) [5]	AWD Item Code	
	6 x 50	86	-	
	8 x 50	115	-	

[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; 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.
[5] Approximate packaged roll weight.

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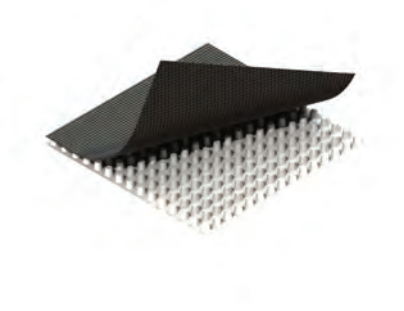
SITEDRAIN™ SHEET 336-W

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 336-W geocomposite drain is composed of a dimpled polymeric core with a woven monofilament 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.

SITEDRAIN Sheet 336-W is an economical solution for single-sided subsurface drainage applications requiring very high strength, high flow capacity, and the performance properties of a woven monofilament geotextile.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, WM	PP, WM
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	430 x 240	365 x 200
		N	1,914 x 1,068	1,624 x 890
Grab Elongation	ASTM D4632	%	30 x 15	24 x 10
CBR Puncture	ASTM D6241	lbs	800	675
		N	3,560	3,004
Trapezoidal Tear	ASTM D4533	lbs	180 x 130	115 x 75
		N	801 x 579	512 x 334
UV Resistance	ASTM D4355	% / 500 Hrs	90	90
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	50	40
		mm	0.300	0.425
Permittivity	ASTM D4491	sec^{-1}	2.7	2.1
Water Flow Rate	ASTM D4491	gpm / ft^2	195	145
		Lpm / m^2	7,944	5,907
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	33,000	-
		kPa	1,676	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	223	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs) [5]	AWD Item Code	
	6 x 50	92	16250	
	8 x 50	123	-	

[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; 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.
[5] Approximate packaged roll weight.

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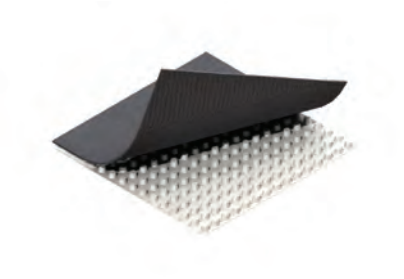
SITEDRAIN™ SHEET 338

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 338 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 338 is an economical solution for single-sided subsurface drainage applications requiring very high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	33,000	-
		kPa	1,676	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	223	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs) [5]	AWD Item Code	
	6 x 50	88	16510	
	8 x 50	117	-	

[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; 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.
[5] Approximate packaged roll weight.

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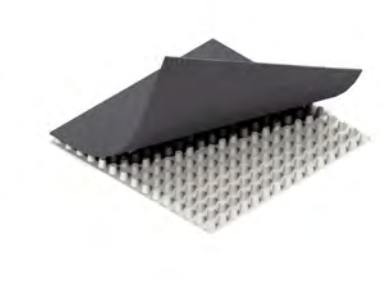
SITEDRAIN™ SHEET 400 SERIES

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 400 Series geocomposite sheet 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.

SITEDRAIN Sheet 400 Series products provide an economical solution for single-sided subsurface drainage applications requiring very high strength and moderate flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	404	404-T	406	406-W	408
GEOTEXTILE							
Material [2]			PP, NPNW	PP, SBNW	PP, NPNW	PP, WM	PP, NPNW
Survivability	AASHTO M288	Class	3	3	2	-	1
Grab Tensile Strength	ASTM D4632	lbs	135	150	195	430 x 240	245
		N	601	667	867	1,914 x 1,068	1,090
Grab Elongation	ASTM D4632	%	60	50	60	30 x 15	60
CBR Puncture	ASTM D6241	lbs	365	295	505	800	580
		N	1,624	1,312	2,246	3,560	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	70	85	180 x 130	100
		N	267	310	378	801 x 579	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	90	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	80	70	50	80
		mm	0.212	0.180	0.212	0.300	0.180
Permittivity	ASTM D4491	sec^{-1}	2.4	1.0	2.1	2.7	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	175	70	155	195	135
		Lpm / m^2	7,130	2,850	6,315	7,944	5,501
CORE							
Compressive Strength	ASTM D6364 ASTM D1621	psf	40,000	40,000	40,000	40,000	40,000
		kPa	1,915	1,915	1,915	1,915	1,915
Thickness	ASTM D5199	in	0.25	0.25	0.25	0.25	0.25
		mm	6.35	6.35	6.35	6.35	6.35
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	13	13	13	13
		Lpm/m	161	161	161	161	161
COMPOSITE							
Roll Size	MEASURED	ft	4 x 50	-	4 x 50	-	4 x 50
			6 x 50	6 x 50	6 x 50	6 x 50	6 x 50
			8 x 50	8 x 50	8 x 50	-	8 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.

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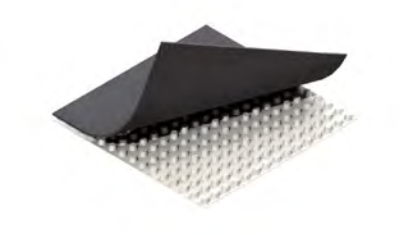
SITEDRAIN™ SHEET 404

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 404 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 404 is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	40,000	-
		kPa	1,915	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	55	-	
	6 x 50	83	-	
	8 x 50	111	-	

[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; 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.

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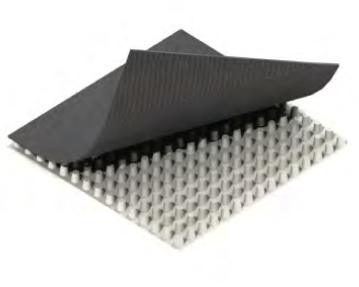
SITEDRAIN™ SHEET 404-T

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 404-T geocomposite drain is composed of a dimpled polymeric core with a spunbonded 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.

SITEDRAIN Sheet 404-T is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and the performance properties of a spunbonded geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	667	578
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	295	276
		N	1,312	1,228
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	60
		mm	0.180	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	40,000	-
		kPa	1,915	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	6 x 50	83	-	
	8 x 50	111	-	

[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; 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.

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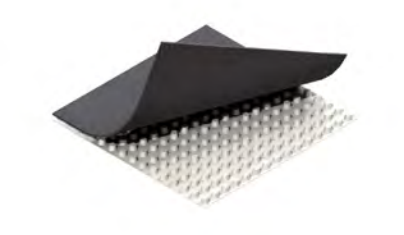
SITEDRAIN™ SHEET 406

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 406 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 406 is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	40,000	-
		kPa	1,915	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	57	-	
	6 x 50	86	-	
	8 x 50	115	-	

[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; 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.

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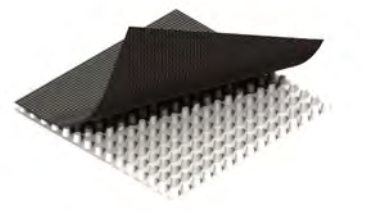
SITEDRAIN™ SHEET 406-W

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 406-W geocomposite drain is composed of a dimpled polymeric core with a woven monofilament 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.

SITEDRAIN Sheet 406-W is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and the performance properties of a woven monofilament geotextile.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, WM	PP, WM
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	430 x 240	365 x 200
		N	1,914 x 1,068	1,624 x 890
Grab Elongation	ASTM D4632	%	30 x 15	24 x 10
CBR Puncture	ASTM D6241	lbs	800	675
		N	3,560	3,004
Trapezoidal Tear	ASTM D4533	lbs	180 x 130	115 x 75
		N	801 x 579	512 x 334
UV Resistance	ASTM D4355	% / 500 Hrs	90	90
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	50	40
		mm	0.300	0.425
Permittivity	ASTM D4491	sec^{-1}	2.7	2.1
Water Flow Rate	ASTM D4491	gpm / ft^2	195	145
		Lpm / m^2	7,944	5,907
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	40,000	-
		kPa	1,915	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	6 x 50	92	-	

[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; 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.

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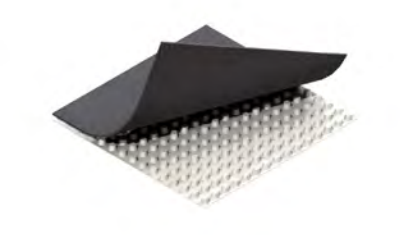
SITEDRAIN™ SHEET 408

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Sheet 408 geocomposite drain is composed of a dimpled polymeric core with a nonwoven 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.

SITEDRAIN Sheet 408 is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	40,000	-
		kPa	1,915	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	59	-	
	6 x 50	88	-	
	8 x 50	117	-	

[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; 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.

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SITEDRAIN™ DS-60 SERIES

PREFABRICATED SHEET DRAIN

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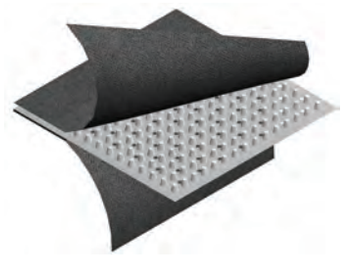

PRODUCT OVERVIEW

SITEDRAIN DS-60 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-60 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-63	DS-64	DS-66	DS-68
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	6,000	6,000	6,000	6,000
		kPa	287	287	287	287
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4
		mm	10	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	15	15	15
		Lpm/m	186	186	186	186
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.

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SITEDRAIN™ DS-63

PREFABRICATED SHEET DRAIN

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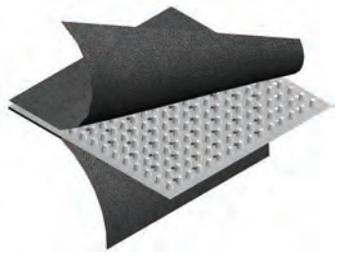

PRODUCT OVERVIEW

SITEDRAIN DS-63 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-63 is an economical solution for double-sided subsurface drainage applications requiring moderate strength and high flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	36	-	

[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; 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.

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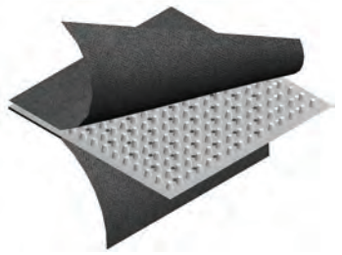
SITEDRAIN™ DS-64

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-64 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-64 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	38	14830	

[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; 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.

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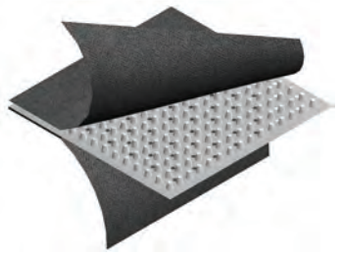
SITEDRAIN™ DS-66

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-66 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-66 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	41	-	

[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; 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.

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SITEDRAIN™ DS-68

PREFABRICATED SHEET DRAIN

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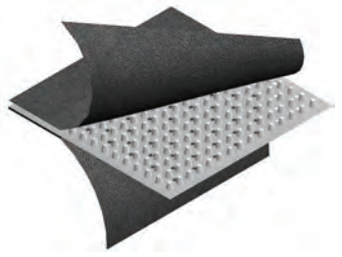
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-68 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-68 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	44	-	

[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; 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.

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SITEDRAIN™ DS-90 SERIES

PREFABRICATED SHEET DRAIN

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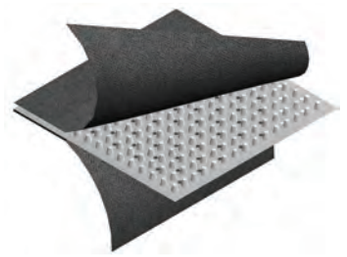
AMERICAN WICK DRAIN



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.

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SITEDRAIN™ DS-93

PREFABRICATED SHEET DRAIN

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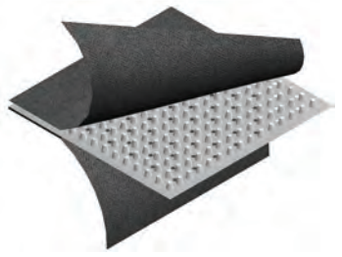

PRODUCT OVERVIEW

SITEDRAIN DS-93 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-93 is an economical solution for double-sided subsurface drainage applications requiring moderate strength and moderate flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	31	10210	

[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; 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.

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SITEDRAIN™ DS-94

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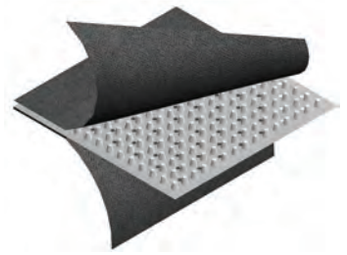

PRODUCT OVERVIEW

SITEDRAIN DS-94 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-94 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	32	10220	

[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; 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.

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SITEDRAIN™ DS-96

PREFABRICATED SHEET DRAIN

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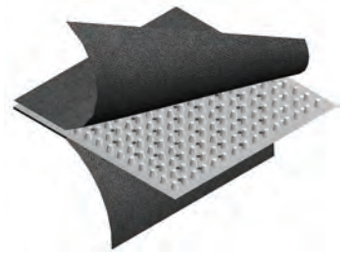

PRODUCT OVERVIEW

SITEDRAIN DS-96 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-96 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	35	10230	

[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; 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.

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SITEDRAIN™ DS-98

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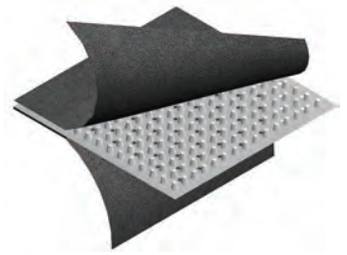

PRODUCT OVERVIEW

SITEDRAIN DS-98 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-98 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	38	10240	

[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; 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.

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SITEDRAIN™ DS-110 SERIES

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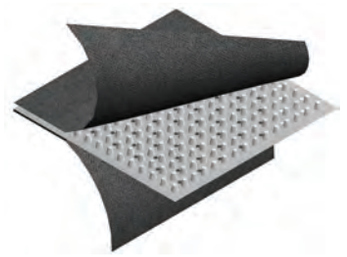

PRODUCT OVERVIEW

SITEDRAIN DS-110 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-110 Series products provide an economical solution for double-sided subsurface drainage applications requiring low strength and high flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	DS-113	DS-114	DS-116	DS-118
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	11,000	11,000	11,000	11,000
		kPa	527	527	527	527
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4
		mm	10	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	18	18	18
		Lpm/m	224	224	224	224
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.

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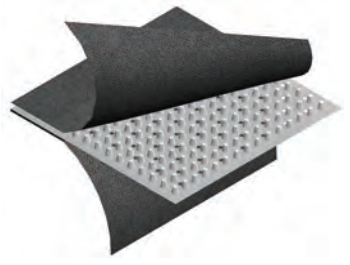
SITEDRAIN™ DS-113

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-113 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-113 is an economical solution for double-sided subsurface drainage applications requiring moderate strength and high flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	41	10263	

[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; 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.

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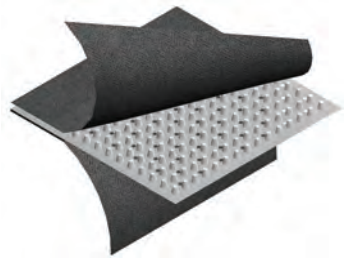
SITEDRAIN™ DS-114

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-114 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-114 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	43	10261	

[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; 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.

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SITEDRAIN™ DS-116

PREFABRICATED SHEET DRAIN

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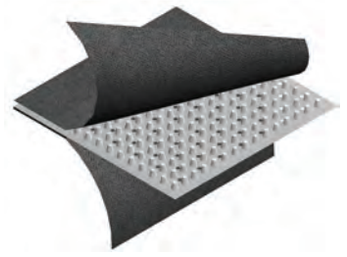
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-116 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-116 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	46	-	

[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; 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.

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SITEDRAIN™ DS-118

PREFABRICATED SHEET DRAIN

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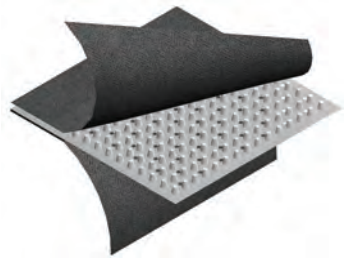
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-118 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-118 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	49	10264	

[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; 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.

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SITEDRAIN™ DS-180 SERIES

PREFABRICATED SHEET DRAIN

AWD
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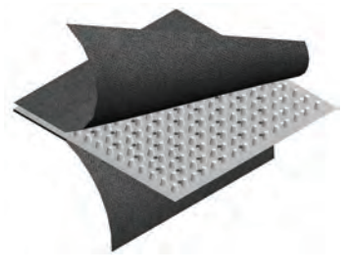

PRODUCT OVERVIEW

SITEDRAIN DS-180 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-180 Series products provide an economical solution for double-sided subsurface drainage applications requiring low strength and high flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	DS-183	DS-184	DS-186	DS-188
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	18,000	18,000	18,000	18,000
		kPa	862	862	862	862
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4
		mm	11	11	11	11
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21	21
		Lpm/m	261	261	261	261
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.

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SITEDRAIN™ DS-183

PREFABRICATED SHEET DRAIN

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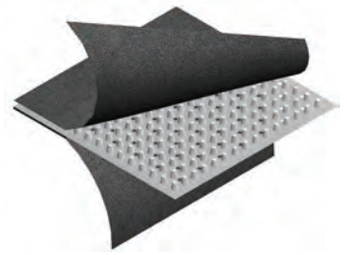

PRODUCT OVERVIEW

SITEDRAIN DS-183 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-183 is an economical solution for double-sided subsurface drainage applications requiring high strength and high flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	49	10250	

[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; 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.

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SITEDRAIN™ DS-184

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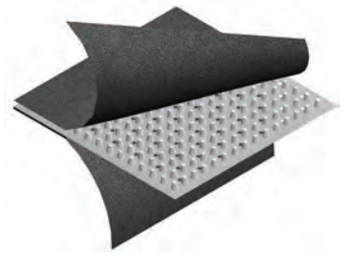

PRODUCT OVERVIEW

SITEDRAIN DS-184 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-184 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	50	10260	

[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; 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.

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SITEDRAIN™ DS-186

PREFABRICATED SHEET DRAIN

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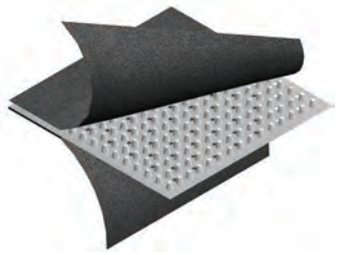

PRODUCT OVERVIEW

SITEDRAIN DS-186 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-186 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	53	10270	

[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; 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.

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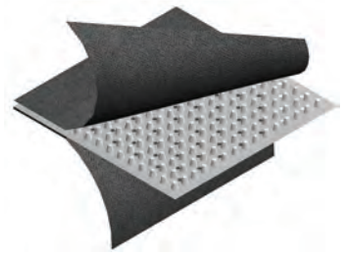
SITEDRAIN™ DS-188

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-188 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-188 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	56	10280	

[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; 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.

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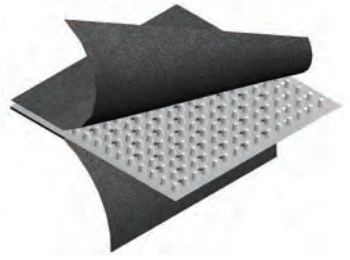
SITEDRAIN™ DS-210 SERIES

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-210 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-210 Series products provide an economical solution for double-sided subsurface drainage applications requiring low strength and high flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	DS-213	DS-214	DS-216	DS-218
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	21,000	21,000	21,000	21,000
		kPa	1,005	1,005	1,005	1,005
Thickness	ASTM D5199	in	0.4	0.4	0.4	0.4
		mm	11	11	11	11
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21	21
		Lpm/m	261	261	261	261
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.

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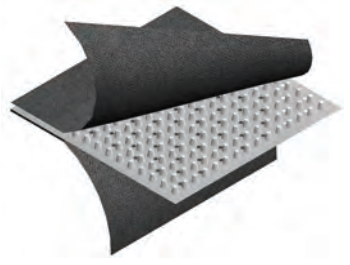
SITEDRAIN™ DS-213

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-213 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-213 is an economical solution for double-sided subsurface drainage applications requiring high strength and high flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	53	-	

[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; 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.

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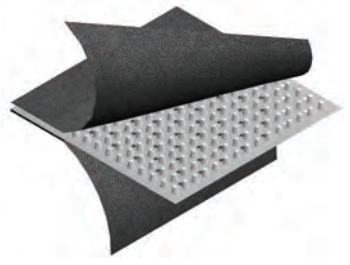
SITEDRAIN™ DS-214

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-214 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-214 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	54	16290	

[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; 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.

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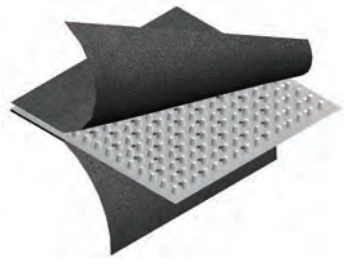
SITEDRAIN™ DS-216

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-216 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-216 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	57	-	

[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; 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.

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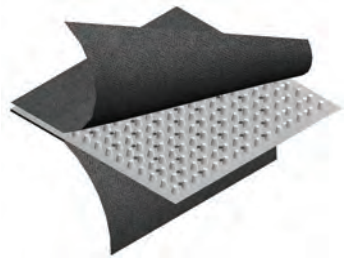
SITEDRAIN™ DS-218

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-218 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-218 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	60	15000	

[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; 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.

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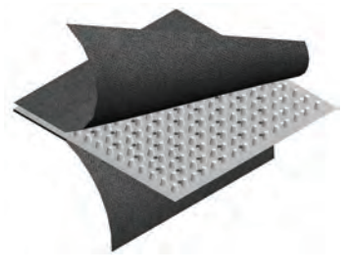
SITEDRAIN™ DS-300 SERIES

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-300 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-300 Series products provide an economical solution for double-sided subsurface drainage applications requiring low strength and high flow capacity. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	DS-303	DS-304	DS-304-T	DS-306	DS-306-W	DS-308
GEOTEXTILE								
Material [2]			PP, NPNW	PP, NPNW	PP, SBNW	PP, NPNW	PP, WM	PP, NPNW
Survivability	AASHTO M288	Class	-	3	3	2	-	1
Grab Tensile Strength	ASTM D4632	lbs	100	135	150	195	430 x 240	245
		N	445	601	670	867	1,914 x 1,068	1,090
Grab Elongation	ASTM D4632	%	70	60	50	60	30 x 15	60
CBR Puncture	ASTM D6241	lbs	305	365	315	505	800	580
		N	1,356	1,624	1,380	2,246	3,560	2,580
Trapezoidal Tear	ASTM D4533	lbs	50	60	70	85	180 x 130	100
		N	222	267	310	378	801 x 579	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70	90	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70	70	70	50	80
		mm	0.212	0.212	0.210	0.212	0.300	0.180
Permittivity	ASTM D4491	sec^{-1}	2.7	2.4	1.0	2.1	2.7	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	165	175	70	155	195	135
		Lpm / m^2	6,724	7,130	2,850	6,315	7,944	5,501
CORE								
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	30,000	30,000	30,000	30,000	30,000
		kPa	1,436	1,436	1,436	1,436	1,436	1,436
Thickness	ASTM D5199	in	0.25	0.25	0.25	0.25	0.25	0.25
		mm	6.35	6.35	6.35	6.35	6.35	6.35
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	13	13	13	13	13
		Lpm/m	161	161	161	161	161	161
COMPOSITE								
Roll Size	MEASURED	ft	4 x 50	4 x 50	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.

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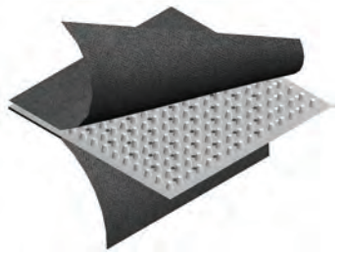
SITEDRAIN™ DS-303

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-303 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-303 is an economical solution for double-sided subsurface drainage applications requiring very high strength and moderate flow capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	100	80
		N	445	356
Grab Elongation	ASTM D4632	%	70	50
CBR Puncture	ASTM D6241	lbs	305	210
		N	1,356	934
Trapezoidal Tear	ASTM D4533	lbs	50	30
		N	222	133
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	50
		mm	0.212	0.300
Permittivity	ASTM D4491	sec^{-1}	2.7	2.2
Water Flow Rate	ASTM D4491	gpm / ft^2	165	150
		Lpm / m^2	6,724	6,112
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	58	10290	

[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; 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.

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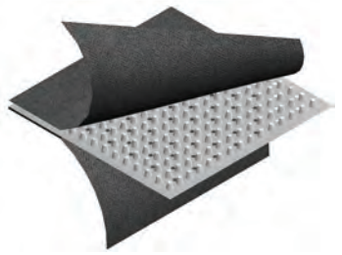
SITEDRAIN™ DS-304

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-304 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-304 is an economical solution for double-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	59	10300	

[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; 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.

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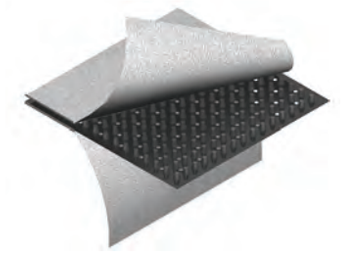
SITEDRAIN™ DS-304-T

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-304-T geocomposite drain is composed of a dimpled polymeric perforated core with a spunbonded 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-304-T is an economical solution for double-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and the performance properties of a spunbonded geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	670	600
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	315	290
		N	1,380	1,230
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	60
		mm	0.210	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	59	10340	

[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; 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.

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SITEDRAIN™ DS-306

PREFABRICATED SHEET DRAIN

AWD
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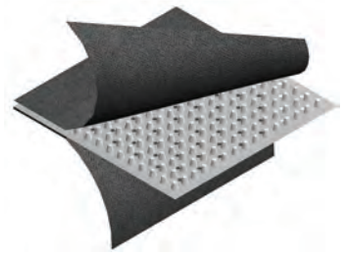

PRODUCT OVERVIEW

SITEDRAIN DS-306 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-306 is an economical solution for double-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	62	10310	

[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; 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.

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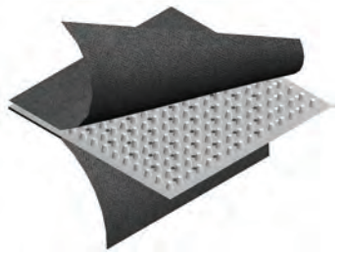
SITEDRAIN™ DS-306-W

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-306-W geocomposite drain is composed of a dimpled polymeric perforated core with a woven monofilament 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-306-W is an economical solution for double-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and the performance properties of a woven monofilament geotextile.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, WM	PP, WM
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	430 x 240	365 x 200
		N	1,914 x 1,068	1,624 x 890
Grab Elongation	ASTM D4632	%	30 x 15	24 x 10
CBR Puncture	ASTM D6241	lbs	800	675
		N	3,560	3,004
Trapezoidal Tear	ASTM D4533	lbs	180 x 130	115 x 75
		N	801 x 579	512 x 334
UV Resistance	ASTM D4355	% / 500 Hrs	90	90
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	50	40
		mm	0.300	0.425
Permittivity	ASTM D4491	sec^{-1}	2.7	2.1
Water Flow Rate	ASTM D4491	gpm / ft^2	195	145
		Lpm / m^2	7,944	5,907
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	60	10330	

[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; 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.

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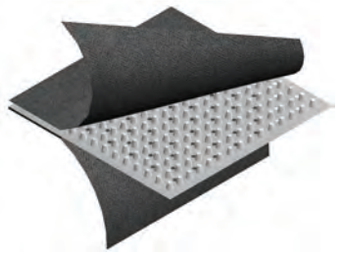
SITEDRAIN™ DS-308

PREFABRICATED SHEET DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN DS-308 geocomposite drain is composed of a dimpled polymeric perforated core with a nonwoven 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-308 is an economical solution for double-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	4 x 50	65	10320	

[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; 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.

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SITEDRAIN™ STRIP 6000 SERIES

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN Strip 6000 Series geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in geotextile. 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 Strip 6000 Series products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems in applications requiring moderate 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	6400	6400-T	6600	6800
GEOTEXTILE						
Material [2]			PP, NPNW	PP, SBNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3	2	1
Grab Tensile Strength	ASTM D4632	lbs	135	150	195	245
		N	601	667	867	1,090
Grab Elongation	ASTM D4632	%	60	50	60	60
CBR Puncture	ASTM D6241	lbs	365	295	505	580
		N	1,624	1,312	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	70	85	100
		N	267	310	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	80	70	80
		mm	0.212	0.180	0.212	0.180
Permittivity	ASTM D4491	sec^{-1}	2.4	1.0	2.1	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	175	70	155	135
		Lpm / m^2	7,130	2,850	6,315	5,501
CORE						
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	6,000	6,000	6,000
		kPa	287	287	287	287
Thickness	ASTM D5199	in	1.0	1.0	1.0	1.0
		mm	25.4	25.4	25.4	25.4
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21	21
		Lpm/m	261	261	261	261

[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 0.1.

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SITEDRAIN™ STRIP 6400

PREFABRICATED STRIP DRAIN

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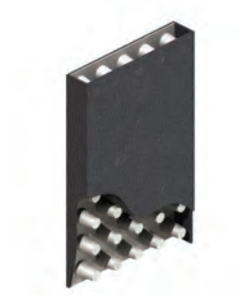

PRODUCT OVERVIEW

SITEDRAIN Strip 6400 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 Strip 6400 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
6406	6"	150'	23 lbs	10400
6412	12"	150'	44 lbs	10410
6412	12"	500'	150 lbs	11340
6418	18"	150'	69 lbs	10420
6418	18"	500'	230 lbs	11350
6424	24"	150'	87 lbs	10430
6424	24"	500'	290 lbs	11170
6436	36"	100'	87 lbs	10440

[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; 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 0.1.

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SITEDRAIN™ STRIP 6400-T

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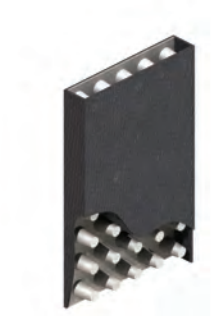

PRODUCT OVERVIEW

SITEDRAIN Strip 6400-T geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a spunbonded geotextile. 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 Strip 6400-T products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	667	578
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	295	276
		N	1,312	1,228
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	60
		mm	0.180	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
6406-T	6"	150'	23 lbs	16040
6412-T	12"	150'	45 lbs	13250
6418-T	18"	150'	69 lbs	14970
6424-T	24"	150'	87 lbs	-
6436-T	36"	100'	87 lbs	14040

[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; 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 0.1.

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SITEDRAIN™ STRIP 6600

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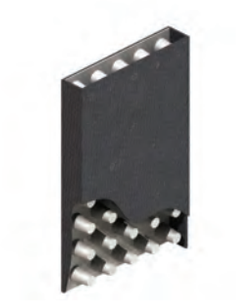

PRODUCT OVERVIEW

SITEDRAIN Strip 6600 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 Strip 6600 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
6606	6"	150'	27 lbs	10450
6612	12"	150'	51 lbs	10460
6612	12"	500'	170 lbs	11190
6618	18"	150'	72 lbs	10470
6618	18"	500'	240 lbs	11200
6624	24"	150'	94 lbs	10480
6624	24"	500'	313 lbs	11210
6636	36"	100'	94 lbs	10490

[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; 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 0.1.

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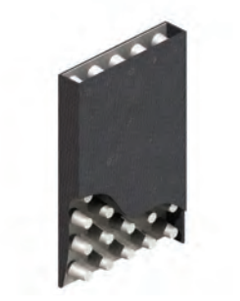
SITEDRAIN™ STRIP 6800

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Strip 6800 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 Strip 6800 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	1,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364	psf	6,000	-
	ASTM D1621	kPa	287	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
6806	6"	150'	31 lbs	10500
6812	12"	150'	57 lbs	10510
6812	12"	500'	190 lbs	12080
6818	18"	150'	75 lbs	10520
6824	24"	150'	101 lbs	10530
6836	36"	100'	101 lbs	10540

[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; 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 0.1.

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SITEDRAIN™ STRIP 9000 SERIES

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN Strip 9000 Series geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in geotextile. 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 Strip 9000 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	9400	9400-T	9600	9800
GEOTEXTILE						
Material [2]			PP, NPNW	PP, SBNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3	2	1
Grab Tensile Strength	ASTM D4632	lbs	135	150	195	245
		N	601	667	867	1,090
Grab Elongation	ASTM D4632	%	60	50	60	60
CBR Puncture	ASTM D6241	lbs	365	295	505	580
		N	1,624	1,312	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	70	85	100
		N	267	310	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	80	70	80
		mm	0.212	0.180	0.212	0.180
Permittivity	ASTM D4491	sec^{-1}	2.4	1.0	2.1	1.8
Water Flow Rate	ASTM D4491	gpm / ft^2	175	70	155	135
		Lpm / m^2	7,130	2,850	6,315	5,501
CORE						
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	9,500	9,500	9,500
		kPa	455	455	455	455
Thickness	ASTM D5199	in	1.0	1.0	1.0	1.0
		mm	25.4	25.4	25.4	25.4
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21	21
		Lpm/m	261	261	261	261

[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 0.1.

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SITEDRAIN™ STRIP 9400

PREFABRICATED STRIP DRAIN

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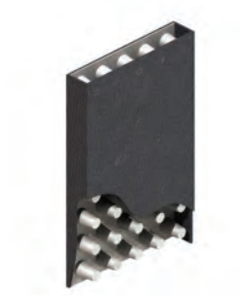

PRODUCT OVERVIEW

SITEDRAIN Strip 9400 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 Strip 9400 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	-
		kPa	455	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
9406	6"	150'	26 lbs	10600
9412	12"	150'	48 lbs	10610
9412	12"	500'	160 lbs	11270
9418	18"	150'	72 lbs	10620
9418	18"	500'	240 lbs	11280
9424	24"	150'	90 lbs	10630
9424	24"	500'	300 lbs	11290
9436	36"	100'	90 lbs	10640

[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; 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 0.1.

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SITEDRAIN™ STRIP 9400-T

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN Strip 9400-T geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a spunbonded geotextile. 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 Strip 9400-T products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	667	578
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	295	276
		N	1,312	1,228
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	60
		mm	0.180	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	-
		kPa	455	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
9406-T	6"	150'	26 lbs	10750
9412-T	12"	150'	48 lbs	10760
9412-T	12"	500'	160 lbs	14490
9418-T	18"	150'	72 lbs	10770
9424-T	24"	150'	90 lbs	10780
9436-T	36"	100'	90 lbs	10790

[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; 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 0.1.

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SITEDRAIN™ STRIP 9600

PREFABRICATED STRIP DRAIN

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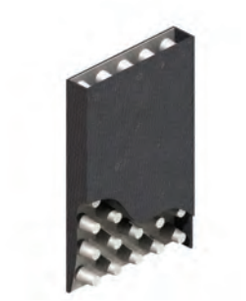

PRODUCT OVERVIEW

SITEDRAIN Strip 9600 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 Strip 9600 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	-
		kPa	455	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
9606	6"	150'	30 lbs	10650
9612	12"	150'	54 lbs	10660
9612	12"	500'	180 lbs	11310
9618	18"	150'	75 lbs	10670
9618	18"	500'	250 lbs	11320
9624	24"	150'	97 lbs	10680
9624	24"	500'	323 lbs	11330
9636	36"	100'	97 lbs	10690

[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; 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 0.1.

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SITEDRAIN™ STRIP 9800

PREFABRICATED STRIP DRAIN

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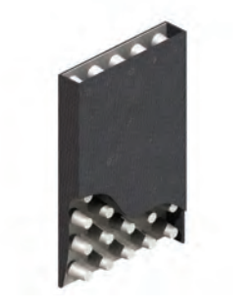
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN Strip 9800 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 Strip 9800 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	-
		kPa	455	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
9806	6"	150'	34 lbs	10700
9812	12"	150'	60 lbs	10710
9812	12"	500'	200 lbs	14390
9818	18"	150'	78 lbs	10720
9824	24"	150'	104 lbs	10730
9836	36"	100'	104 lbs	10740

[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; 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 0.1.

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SITEDRAIN™ C-60 SERIES

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-60 Series geocomposite chimney drain products are composed of a dimpled polymeric perforated core fully wrapped in geotextile. 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 C-60 Series products provide an economical solution for double-sided subsurface drainage applications requiring moderate 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	C-64	C-66	C-68
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	6,000	6,000
		kPa	287	287	287
Thickness	ASTM D5199	in	0.4	0.4	0.4
		mm	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	15	15
		Lpm/m	186	186	186
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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SITEDRAIN™ C-64

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-64 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-64 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-64-12	12 in	100 ft	26 lbs	-
C-64-18	18 in	100 ft	34 lbs	-
C-64-24	24 in	100 ft	45 lbs	14820

[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; 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.

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SITEDRAIN™ C-66

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-66 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-66 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-66-12	12 in	100 ft	31 lbs	-
C-66-18	18 in	100 ft	39 lbs	-
C-66-24	24 in	100 ft	55 lbs	-

[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; 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.

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SITEDRAIN™ C-68

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-68 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-68 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-68-12	12 in	100 ft	36 lbs	-
C-68-18	18 in	100 ft	45 lbs	-
C-68-24	24 in	100 ft	60 lbs	-

[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; 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.

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SITEDRAIN™ C-90 SERIES

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-90 Series geocomposite chimney drain products are composed of a dimpled polymeric perforated core fully wrapped in geotextile. 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 C-90 Series products provide an economical solution for double-sided subsurface drainage applications requiring moderate strength and moderate flow capacity. Various geotextile options and product widths are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	C-94	C-96	C-98
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	9,000	9,000
		kPa	431	431	431
Thickness	ASTM D5199	in	0.25	0.25	0.25
		mm	6.35	6.35	6.35
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	12	12
		Lpm/m	149	149	149
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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SITEDRAIN™ C-94

PREFABRICATED CHIMNEY DRAIN

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AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-94 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-94 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-94-12	12 in	100 ft	20 lbs	10860
C-94-18	18 in	100 ft	29 lbs	14930
C-94-24	24 in	100 ft	36 lbs	10940

[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; 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.

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SITEDRAIN™ C-96

PREFABRICATED CHIMNEY DRAIN

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PRODUCT OVERVIEW

SITEDRAIN C-96 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-96 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-96-12	12 in	100 ft	25 lbs	10870
C-96-18	18 in	100 ft	35 lbs	-
C-96-24	24 in	100 ft	46 lbs	10950

[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; 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.

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SITEDRAIN™ C-98

PREFABRICATED CHIMNEY DRAIN

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PRODUCT OVERVIEW

SITEDRAIN C-98 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-98 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-98-12	12 in	100 ft	27 lbs	10880
C-98-18	18 in	100 ft	41 lbs	-
C-98-24	24 in	100 ft	51 lbs	10960

[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; 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.

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SITEDRAIN™ C-110 SERIES

PREFABRICATED CHIMNEY DRAIN

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AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-110 Series geocomposite chimney drain products are composed of a dimpled polymeric perforated core fully wrapped in geotextile. 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 C-110 Series products provide an economical solution for double-sided subsurface drainage applications requiring moderate 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	C-114	C-116	C-118
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	11,000	11,000
		kPa	527	527	527
Thickness	ASTM D5199	in	0.4	0.4	0.4
		mm	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	18	18
		Lpm/m	224	224	224
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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SITEDRAIN™ C-114

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-114 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-114 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-114-12	12 in	100 ft	30 lbs	16480
C-114-18	18 in	100 ft	38 lbs	-
C-114-24	24 in	100 ft	50 lbs	14740

[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; 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.

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SITEDRAIN™ C-116

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-116 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-116 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-116-12	12 in	100 ft	35 lbs	16470
C-116-18	18 in	100 ft	44 lbs	-
C-116-24	24 in	100 ft	60 lbs	-

[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; 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.

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SITEDRAIN™ C-118

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-118 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-118 is an economical solution for double-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-118-12	12 in	100 ft	40 lbs	-
C-118-18	18 in	100 ft	49 lbs	16300
C-118-24	24 in	100 ft	65 lbs	-

[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; 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.

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SITEDRAIN™ C-180 SERIES

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-180 Series geocomposite chimney drain products are composed of a dimpled polymeric perforated core fully wrapped in geotextile. 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 C-180 Series products provide an economical solution for double-sided subsurface drainage 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	C-184	C-186	C-188
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	18,000	18,000
		kPa	862	862	862
Thickness	ASTM D5199	in	0.4	0.4	0.4
		mm	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21
		Lpm/m	261	261	261
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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SITEDRAIN™ C-184

PREFABRICATED CHIMNEY DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-184 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-184 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-184-12	12 in	100 ft	35 lbs	10980
C-184-18	18 in	100 ft	44 lbs	14880
C-184-24	24 in	100 ft	57 lbs	11060

[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; 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.

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SITEDRAIN™ C-186

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-186 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-186 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-186-12	12 in	100 ft	40 lbs	10990
C-186-18	18 in	100 ft	50 lbs	14940
C-186-24	24 in	100 ft	67 lbs	11070

[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; 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.

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SITEDRAIN™ C-188

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-188 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-188 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-188-12	12 in	100 ft	45 lbs	11100
C-188-18	18 in	100 ft	55 lbs	-
C-188-24	24 in	100 ft	72 lbs	11080

[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; 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.

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SITEDRAIN™ C-210 SERIES

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-210 Series geocomposite chimney drain products are composed of a dimpled polymeric perforated core fully wrapped in geotextile. 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 C-210 Series products provide an economical solution for double-sided subsurface drainage 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	C-214	C-216	C-218
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	21,000	21,000
		kPa	1,005	1,005	1,005
Thickness	ASTM D5199	in	0.4	0.4	0.4
		mm	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21
		Lpm/m	261	261	261
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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SITEDRAIN™ C-214

PREFABRICATED CHIMNEY DRAIN

AWD
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PRODUCT OVERVIEW

SITEDRAIN C-214 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-214 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-214-12	12 in	100 ft	36 lbs	-
C-214-18	18 in	100 ft	46 lbs	-
C-214-24	24 in	100 ft	60 lbs	-

[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; 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.

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SITEDRAIN™ C-216

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-216 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-216 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-216-12	12 in	100 ft	41 lbs	-
C-216-18	18 in	100 ft	52 lbs	-
C-216-24	24 in	100 ft	70 lbs	-

[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; 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.

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SITEDRAIN™ C-218

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-218 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-218 is an economical solution for double-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-218-12	12 in	100 ft	46 lbs	-
C-218-18	18 in	100 ft	57 lbs	-
C-218-24	24 in	100 ft	74 lbs	-

[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; 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.

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SITEDRAIN™ C-300 SERIES

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-300 Series geocomposite chimney drain products are composed of a dimpled polymeric perforated core fully wrapped in geotextile. 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 C-300 Series products provide an economical solution for double-sided subsurface drainage applications requiring very high strength and moderate flow capacity. Various geotextile options and product widths are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	C-304	C-306	C-308
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	30,000	30,000
		kPa	1,436	1,436	1,436
Thickness	ASTM D5199	in	0.25	0.25	0.25
		mm	6.35	6.35	6.35
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	13	13
		Lpm/m	161	161	161
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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SITEDRAIN™ C-304

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-304 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-304 is an economical solution for double-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-304-12	12 in	100 ft	31 lbs	-
C-304-18	18 in	100 ft	46 lbs	-
C-304-24	24 in	100 ft	62 lbs	-

[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; 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.

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SITEDRAIN™ C-306

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-306 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-306 is an economical solution for double-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-306-12	12 in	100 ft	42 lbs	-
C-306-18	18 in	100 ft	52 lbs	-
C-306-24	24 in	100 ft	74 lbs	-

[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; 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.

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SITEDRAIN™ C-308

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN C-308 geocomposite chimney drain is composed of a dimpled polymeric perforated core fully wrapped in a nonwoven geotextile. 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 C-308 is an economical solution for double-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
C-308-12	12 in	100 ft	47 lbs	14920
C-308-18	18 in	100 ft	58 lbs	-
C-308-24	24 in	100 ft	79 lbs	16430

[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; 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.

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SITEDRAIN™ CF-60 SERIES

PREFABRICATED CHIMNEY DRAIN

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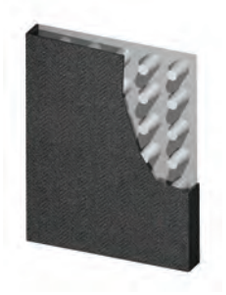

PRODUCT OVERVIEW

SITEDRAIN CF-60 Series geocomposite chimney 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.

SITEDRAIN CF-60 Series products provide an economical solution for single-sided subsurface drainage applications requiring moderate 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	CF-64	CF-66	CF-68
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	6,000	6,000
		kPa	287	287	287
Thickness	ASTM D5199	in	0.4	0.4	0.4
		mm	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	15	15
		Lpm/m	186	186	186
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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SITEDRAIN™ CF-64

PREFABRICATED CHIMNEY DRAIN

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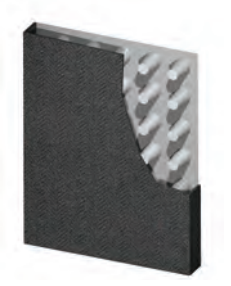

PRODUCT OVERVIEW

SITEDRAIN CF-64 geocomposite chimney drain is 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.

SITEDRAIN CF-64 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-64-12	12 in	100 ft	26 lbs	15220
CF-64-18	18 in	100 ft	34 lbs	16270
CF-64-24	24 in	100 ft	45 lbs	14800

[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; 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.

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SITEDRAIN™ CF-66

PREFABRICATED CHIMNEY DRAIN

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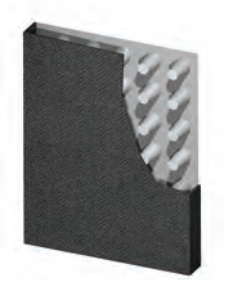
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-66 geocomposite chimney drain is 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.

SITEDRAIN CF-66 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-66-12	12 in	100 ft	31 lbs	-
CF-66-18	18 in	100 ft	39 lbs	-
CF-66-24	24 in	100 ft	55 lbs	-

[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; 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.

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SITEDRAIN™ CF-68

PREFABRICATED CHIMNEY DRAIN

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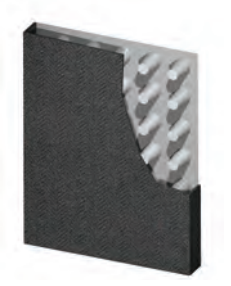

PRODUCT OVERVIEW

SITEDRAIN CF-68 geocomposite chimney drain is 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.

SITEDRAIN CF-68 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	6,000	-
		kPa	287	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	15	-
		Lpm/m	186	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-68-12	12 in	100 ft	36 lbs	-
CF-68-18	18 in	100 ft	45 lbs	-
CF-68-24	24 in	100 ft	60 lbs	-

[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; 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.

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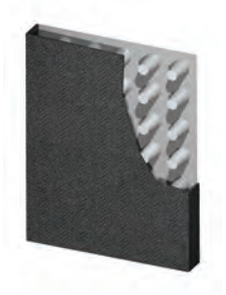
SITEDRAIN™ CF-90 SERIES

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-90 Series geocomposite chimney 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.

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

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	CF-94	CF-96	CF-98
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	9,000	9,000
		kPa	431	431	431
Thickness	ASTM D5199	in	0.25	0.25	0.25
		mm	6.35	6.35	6.35
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	12	12
		Lpm/m	149	149	149
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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SITEDRAIN™ CF-94

PREFABRICATED CHIMNEY DRAIN

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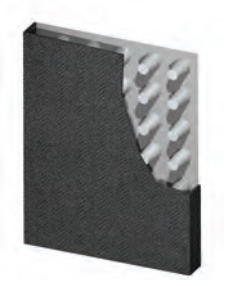

PRODUCT OVERVIEW

SITEDRAIN CF-94 geocomposite chimney drain is 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.

SITEDRAIN CF-94 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-94-12	12 in	100 ft	20 lbs	12820
CF-94-18	18 in	100 ft	29 lbs	-
CF-94-24	24 in	100 ft	36 lbs	12830

[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; 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.

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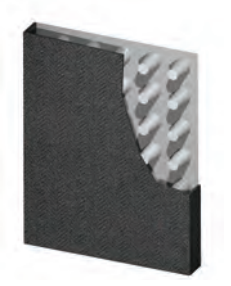
SITEDRAIN™ CF-96

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-96 geocomposite chimney drain is 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.

SITEDRAIN CF-96 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-96-12	12 in	100 ft	25 lbs	-
CF-96-18	18 in	100 ft	35 lbs	-
CF-96-24	24 in	100 ft	46 lbs	-

[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; 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.

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SITEDRAIN™ CF-98

PREFABRICATED CHIMNEY DRAIN

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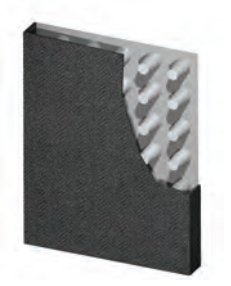
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-98 geocomposite chimney drain is 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.

SITEDRAIN CF-98 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	12	-
		Lpm/m	149	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-98-12	12 in	100 ft	27 lbs	-
CF-98-18	18 in	100 ft	41 lbs	-
CF-98-24	24 in	100 ft	51 lbs	-

[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; 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.

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SITEDRAIN™ CF-110 SERIES

PREFABRICATED CHIMNEY DRAIN

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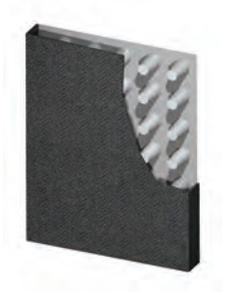

PRODUCT OVERVIEW

SITEDRAIN CF-110 Series geocomposite chimney 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.

SITEDRAIN CF-110 Series products provide an economical solution for single-sided subsurface drainage applications requiring moderate 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	CF-114	CF-116	CF-118
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	11,000	11,000
		kPa	527	527	527
Thickness	ASTM D5199	in	0.4	0.4	0.4
		mm	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	18	18
		Lpm/m	224	224	224
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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SITEDRAIN™ CF-114

PREFABRICATED CHIMNEY DRAIN

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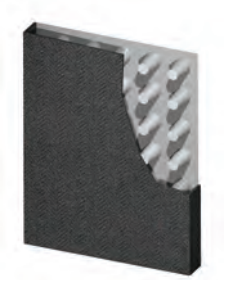
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-114 geocomposite chimney drain is 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.

SITEDRAIN CF-114 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-114-12	12 in	100 ft	30 lbs	-
CF-114-18	18 in	100 ft	38 lbs	-
CF-114-24	24 in	100 ft	50 lbs	-

[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; 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.

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SITEDRAIN™ CF-116

PREFABRICATED CHIMNEY DRAIN

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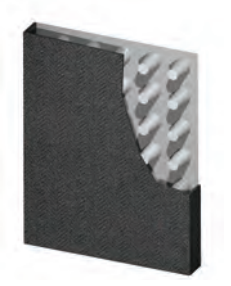

PRODUCT OVERVIEW

SITEDRAIN CF-116 geocomposite chimney drain is 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.

SITEDRAIN CF-116 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-116-12	12 in	100 ft	35 lbs	-
CF-116-18	18 in	100 ft	44 lbs	-
CF-116-24	24 in	100 ft	60 lbs	-

[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; 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.

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SITEDRAIN™ CF-118

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN CF-118 geocomposite chimney drain is 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.

SITEDRAIN CF-118 is an economical solution for single-sided subsurface drainage applications requiring moderate strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	11,000	-
		kPa	527	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	18	-
		Lpm/m	224	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-118-12	12 in	100 ft	40 lbs	-
CF-118-18	18 in	100 ft	49 lbs	-
CF-118-24	24 in	100 ft	65 lbs	-

[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; 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.

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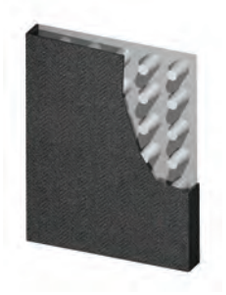
SITEDRAIN™ CF-180 SERIES

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-180 Series geocomposite chimney 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.

SITEDRAIN CF-180 Series products provide an economical solution for single-sided subsurface drainage 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	CF-184	CF-186	CF-188
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	18,000	18,000
		kPa	862	862	862
Thickness	ASTM D5199	in	0.4	0.4	0.4
		mm	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21
		Lpm/m	261	261	261
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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SITEDRAIN™ CF-184

PREFABRICATED CHIMNEY DRAIN

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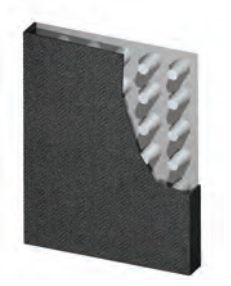

PRODUCT OVERVIEW

SITEDRAIN CF-184 geocomposite chimney drain is 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.

SITEDRAIN CF-184 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-184-12	12 in	100 ft	35 lbs	12900
CF-184-18	18 in	100 ft	44 lbs	16450
CF-184-24	24 in	100 ft	57 lbs	12850

[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; 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.

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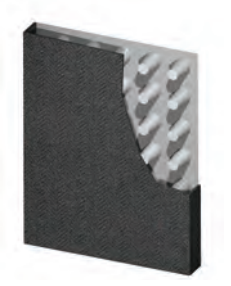
SITEDRAIN™ CF-186

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-186 geocomposite chimney drain is 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.

SITEDRAIN CF-186 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-186-12	12 in	100 ft	40 lbs	12840
CF-186-18	18 in	100 ft	50 lbs	-
CF-186-24	24 in	100 ft	67 lbs	-

[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; 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.

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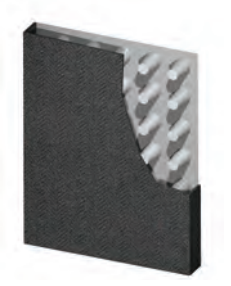
SITEDRAIN™ CF-188

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-188 geocomposite chimney drain is 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.

SITEDRAIN CF-188 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	18,000	-
		kPa	862	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-188-12	12 in	100 ft	45 lbs	-
CF-188-18	18 in	100 ft	55 lbs	-
CF-188-24	24 in	100 ft	72 lbs	-

[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; 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.

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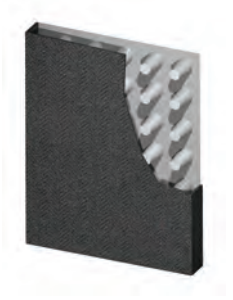
SITEDRAIN™ CF-210 SERIES

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-210 Series geocomposite chimney 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.

SITEDRAIN CF-210 Series products provide an economical solution for single-sided subsurface drainage 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	CF-214	CF-216	CF-218
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	21,000	21,000
		kPa	1,005	1,005	1,005
Thickness	ASTM D5199	in	0.4	0.4	0.4
		mm	10	10	10
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21
		Lpm/m	261	261	261
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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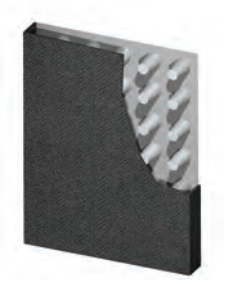
SITEDRAIN™ CF-214

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-214 geocomposite chimney drain is 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.

SITEDRAIN CF-214 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-214-12	12 in	100 ft	36 lbs	-
CF-214-18	18 in	100 ft	46 lbs	-
CF-214-24	24 in	100 ft	60 lbs	-

[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; 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.

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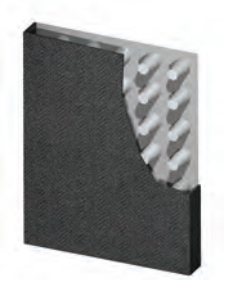
SITEDRAIN™ CF-216

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-216 geocomposite chimney drain is 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.

SITEDRAIN CF-216 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-216-12	12 in	100 ft	41 lbs	-
CF-216-18	18 in	100 ft	52 lbs	-
CF-216-24	24 in	100 ft	70 lbs	-

[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; 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.

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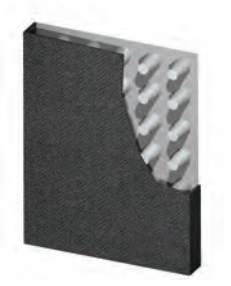
SITEDRAIN™ CF-218

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-218 geocomposite chimney drain is 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.

SITEDRAIN CF-218 is an economical solution for single-sided subsurface drainage applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	21,000	-
		kPa	1,005	-
Thickness	ASTM D5199	in	0.4	-
		mm	10	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-218-12	12 in	100 ft	46 lbs	-
CF-218-18	18 in	100 ft	57 lbs	-
CF-218-24	24 in	100 ft	74 lbs	-

[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; 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.

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SITEDRAIN™ CF-300 SERIES

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN CF-300 Series geocomposite chimney 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.

SITEDRAIN CF-300 Series products provide an economical solution for single-sided subsurface drainage applications requiring very high strength and moderate flow capacity. Various geotextile options and product widths are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	CF-304	CF-306	CF-308
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	30,000	30,000
		kPa	1,436	1,436	1,436
Thickness	ASTM D5199	in	0.25	0.25	0.25
		mm	6.35	6.35	6.35
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	13	13
		Lpm/m	161	161	161
COMPOSITE					
Roll Size	MEASURED	in x ft	12 x 100	12 x 100	12 x 100
			18 x 100	18 x 100	18 x 100
			24 x 100	24 x 100	24 x 100

[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.

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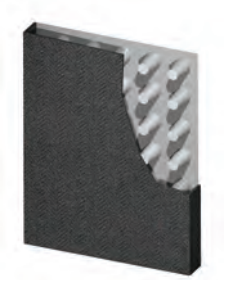
SITEDRAIN™ CF-304

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-304 geocomposite chimney drain is 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.

SITEDRAIN CF-304 is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-304-12	12 in	100 ft	31 lbs	-
CF-304-18	18 in	100 ft	46 lbs	-
CF-304-24	24 in	100 ft	62 lbs	-

[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; 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.

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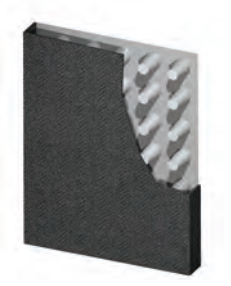
SITEDRAIN™ CF-306

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-306 geocomposite chimney drain is 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.

SITEDRAIN CF-306 is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-306-12	12 in	100 ft	42 lbs	-
CF-306-18	18 in	100 ft	52 lbs	-
CF-306-24	24 in	100 ft	74 lbs	-

[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; 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.

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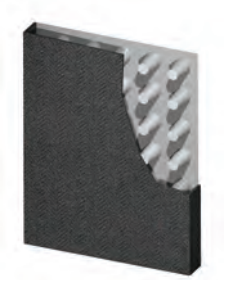
SITEDRAIN™ CF-308

PREFABRICATED CHIMNEY DRAIN

AWD
AMERICAN WICK DRAIN



PRODUCT OVERVIEW

SITEDRAIN CF-308 geocomposite chimney drain is 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.

SITEDRAIN CF-308 is an economical solution for single-sided subsurface drainage applications requiring very high strength, moderate flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	30,000	-
		kPa	1,436	-
Thickness	ASTM D5199	in	0.25	-
		mm	6.35	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	13	-
		Lpm/m	161	-

MODEL	WIDTH	ROLL LENGTH	ROLL WEIGHT	ITEM CODE
CF-308-12	12 in	100 ft	47 lbs	-
CF-308-18	18 in	100 ft	58 lbs	-
CF-308-24	24 in	100 ft	79 lbs	-

[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; 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.

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SITEDRAIN™ HQ 240 SERIES

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQ 240 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 0.4"-thick core and includes an integrated transition flange for easy connection to SITEDRAIN geocomposite sheet drain products. SITEDRAIN HQ 240 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	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	9,000	9,000
		kPa	431	431	431
Thickness	ASTM D5199	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
COMPOSITE					
Roll Size	MEASURED	ft	2 x 50	2 x 50	2 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 0.1.

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SITEDRAIN™ HQ 244

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQ 244 geocomposite combination drain is composed of a dimpled polymeric core with a nonwoven 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 0.4"-thick core and includes an integrated transition flange for easy connection to SITEDRAIN geocomposite sheet drain products.SITEDRAIN HQ 244 provides a value engineered alternative to perforated pipe and aggregate subsurface drainage systems in applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.4 / 1.0	-
		mm	10 / 25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	2 x 50	33	10810	

[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; 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 0.1.

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SITEDRAIN™ HQ 246

PREFABRICATED STRIP DRAIN

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AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQ 246 geocomposite combination drain is composed of a dimpled polymeric core with a nonwoven 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 0.4"-thick core and includes an integrated transition flange for easy connection to SITEDRAIN geocomposite sheet drain products.SITEDRAIN HQ 246 provides a value engineered alternative to perforated pipe and aggregate subsurface drainage systems in applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.4 / 1.0	-
		mm	10 / 25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	2 x 50	39	10820	

[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; 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 0.1.

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SITEDRAIN™ HQ 248

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQ 248 geocomposite combination drain is composed of a dimpled polymeric core with a nonwoven 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 0.4"-thick core and includes an integrated transition flange for easy connection to SITEDRAIN geocomposite sheet drain products.SITEDRAIN HQ 248 provides a value engineered alternative to perforated pipe and aggregate subsurface drainage systems in applications requiring high strength, high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.4 / 1.0	-
		mm	10 / 25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	2 x 50	45	10830	

[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; 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 0.1.

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SITEDRAIN™ HQ 240-B SERIES

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQ 240-B Series geocomposite combination drain products are composed of a dimpled polymeric core with a geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. The 24"-wide product combines 12" of high-profile 1"-thick core with 12" of low-profile 0.4"-thick core and includes an integrated transition flange for easy connection to SITEDRAIN geocomposite sheet drain products.SITEDRAIN HQ 240-B Series products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems in applications requiring high strength, high flow capacity, and additional protection for softer waterproofing membranes. Various geotextile options are available to meet project-specific requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	244-B	246-B	248-B
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	9,000	9,000
		kPa	431	431	431
Thickness	ASTM D5199	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
COMPOSITE					
Roll Size	MEASURED	ft	2 x 50	2 x 50	2 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 0.1.

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SITEDRAIN™ HQ 244-B

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQ 244-B geocomposite combination drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. The 24"-wide product combines 12" of high-profile 1"-thick core with 12" of low-profile 0.4"-thick core and includes an integrated transition flange for easy connection to SITEDRAIN geocomposite sheet drain products.SITEDRAIN HQ 244-B provides a value engineered alternative to perforated pipe and aggregate subsurface drainage systems in applications requiring high strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.4 / 1.0	-
		mm	10 / 25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	2 x 50	34	16440	

[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; 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 0.1.

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SITEDRAIN™ HQ 246-B

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQ 246-B geocomposite combination drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. The 24"-wide product combines 12" of high-profile 1"-thick core with 12" of low-profile 0.4"-thick core and includes an integrated transition flange for easy connection to SITEDRAIN geocomposite sheet drain products.SITEDRAIN HQ 246-B provides a value engineered alternative to perforated pipe and aggregate subsurface drainage systems in applications requiring high strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.4 / 1.0	-
		mm	10 / 25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	2 x 50	40	-	

[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; 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 0.1.

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SITEDRAIN™ HQ 248-B

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQ 248-B geocomposite combination drain is composed of a dimpled polymeric core with a nonwoven geotextile bonded to the dimple side and a polymeric film bonded to the back 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 polymeric backing film provides system compatibility with softer waterproofing membranes. The 24"-wide product combines 12" of high-profile 1"-thick core with 12" of low-profile 0.4"-thick core and includes an integrated transition flange for easy connection to SITEDRAIN geocomposite sheet drain products.SITEDRAIN HQ 248-B provides a value engineered alternative to perforated pipe and aggregate subsurface drainage systems in applications requiring high strength, high flow capacity, additional protection for softer waterproofing membranes, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,000	-
		kPa	431	-
Thickness	ASTM D5199	in	0.4 / 1.0	-
		mm	10 / 25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	2 x 50	46	-	

[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; 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 0.1.

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SITEDRAIN™ HQS 1200 SERIES

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQS 1200 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 1200 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	1240	1260	1280
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	9,500	9,500
		kPa	455	455	455
Thickness	ASTM D5199	in	1.0	1.0	1.0
		mm	25.4	25.4	25.4
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21
		Lpm/m	261	261	261
COMPOSITE					
Roll Size	MEASURED	ft	1 x 150	1 x 150	1 x 150

[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 0.1.

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SITEDRAIN™ HQS 1240

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQS 1240 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven 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 1240 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring high strength and high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	-
		kPa	455	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	1 x 135	43	14950	
	1 x 150	48	11540	

[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; 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 0.1.

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SITEDRAIN™ HQS 1260

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQS 1260 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven 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 1260 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring high strength and high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	-
		kPa	455	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	1 x 150	54	11560	

[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; 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 0.1.

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SITEDRAIN™ HQS 1280

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQS 1280 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven 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 1280 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring high strength and high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	-
		kPa	455	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	1 x 150	60	11580	

[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; 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 0.1.

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SITEDRAIN™ HQS 1800 SERIES

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQS 1800 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 1800 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	1840	1860	1880
GEOTEXTILE					
Material [2]			PP, NPNW	PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	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	ASTM D6241	lbs	365	505	580
		N	1,624	2,246	2,580
Trapezoidal Tear	ASTM D4533	lbs	60	85	100
		N	267	378	445
UV Resistance	ASTM D4355	% / 500 Hrs	70	70	70
Apparent Opening Size (AOS) [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					
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	9,500	9,500
		kPa	455	455	455
Thickness	ASTM D5199	in	1.0	1.0	1.0
		mm	25.4	25.4	25.4
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	21	21
		Lpm/m	261	261	261
COMPOSITE					
Roll Size	MEASURED	ft	1.5 x 150	1.5 x 150	1.5 x 150

[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 0.1.

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SITEDRAIN™ HQS 1840

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQS 1840 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven 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 1840 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring high strength and high flow capacity, and a geotextile meeting AASHTO M288 Class 3 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	3	3
Grab Tensile Strength	ASTM D4632	lbs	135	120
		N	601	534
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	365	340
		N	1,624	1,512
Trapezoidal Tear	ASTM D4533	lbs	60	50
		N	267	222
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.4	1.7
Water Flow Rate	ASTM D4491	gpm / ft^2	175	140
		Lpm / m^2	7,130	5,704
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	-
		kPa	455	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	1.5 x 150	60	11550	

[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; 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 0.1.

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SITEDRAIN™ HQS 1860

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQS 1860 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven 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 1860 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring high strength and high flow capacity, and a geotextile meeting AASHTO M288 Class 2 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	2	2
Grab Tensile Strength	ASTM D4632	lbs	195	160
		N	867	712
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	505	410
		N	2,246	1,824
Trapezoidal Tear	ASTM D4533	lbs	85	60
		N	378	267
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	70	70
		mm	0.212	0.212
Permittivity	ASTM D4491	sec^{-1}	2.1	1.5
Water Flow Rate	ASTM D4491	gpm / ft^2	155	110
		Lpm / m^2	6,315	4,482
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	-
		kPa	455	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	1.5 x 150	75	11570	

[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; 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 0.1.

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SITEDRAIN™ HQS 1880

PREFABRICATED STRIP DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN HQS 1880 geocomposite strip drain products are composed of a dimpled polymeric perforated core fully wrapped in a nonwoven 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 1880 products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems requiring high strength and high flow capacity, and a geotextile meeting AASHTO M288 Class 1 subsurface drainage requirements.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, NPNW	PP, NPNW
Survivability	AASHTO M288	Class	1	1
Grab Tensile Strength	ASTM D4632	lbs	245	205
		N	1,090	912
Grab Elongation	ASTM D4632	%	60	50
CBR Puncture	ASTM D6241	lbs	580	535
		N	2,580	2,380
Trapezoidal Tear	ASTM D4533	lbs	100	80
		N	445	356
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	80
		mm	0.180	0.180
Permittivity	ASTM D4491	sec^{-1}	1.8	1.4
Water Flow Rate	ASTM D4491	gpm / ft^2	135	100
		Lpm / m^2	5,501	4,074
CORE				
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500	-
		kPa	455	-
Thickness	ASTM D5199	in	1.0	-
		mm	25.4	-
In-Plane Flow Rate [4]	ASTM D4716	gpm/ft	21	-
		Lpm/m	261	-
COMPOSITE				
Available Roll Sizes	Dimensions (ft)	Weight (lbs)	AWD Item Code	
	1.5 x 150	78	11590	

[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; 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 0.1.

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AMERDRAIN PVD 407

PREFABRICATED VERTICAL DRAIN / PVD / WICK DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

AMERDRAIN PVD 407 wick drain is one of the world's most widely used and accepted PVD designs offering unmatched performance and quality. AMERDRAIN PVD 407 sets the world standard on projects where PVDs are employed to control and accelerate the consolidation of soft or yielding soils due to excess pore water pressure.

AMERDRAIN PVD 407 is a two-part prefabricated soil drain consisting of a formed polypropylene core covered with a spunbonded nonwoven polypropylene geotextile filter fabric. The geotextile allows water to pass into the drain core while restricting the movement of soil particles which might otherwise clog the core.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	Typical Value	MARV
GEOTEXTILE				
Material [2]			PP, SBNW	PP, SBNW
Grab Tensile Strength	ASTM D4632	lbs	150	130
		N	667	578
Grab Elongation	ASTM D4632	%	50	50
CBR Puncture	ASTM D6241	lbs	295	276
		N	1,312	1,228
Trapezoidal Tear	ASTM D4533	lbs	70	60
		N	310	290
UV Resistance	ASTM D4355	% / 500 Hrs	70	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80	60
		mm	0.180	0.250
Permittivity	ASTM D4491	sec^{-1}	1.0	0.8
Water Flow Rate	ASTM D4491	gpm / ft^2	70	60
		Lpm / m^2	2,850	2,444
CORE				
Material [2]			PP	-
Tensile Strength	ASTM D4595	lbs	225	-
		N	1,001	-
COMPOSITE				
Tensile Strength	ASTM D4595	lbs	620	-
		N	2,758	-
Discharge Capacity	ASTM D4716[4]	gpm	1.6	-
		lpm	6	-
Available Roll Sizes	AWD Item Code	Dimensions	Roll Width x Roll Length	Weight (lbs)
	14070	in x ft	4 x 1,000	52
		mm x m	102 x 305	

[1] Minimum Average Roll Value (MARV) and Typical Value as defined in ASTM D4439.
[2] PP = Polypropylene; SBNW = Spunbonded Nonwoven
[3] AOS MARV = Maximum Average Roll Value (MaxARV).

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SITEDRAIN™ VRA 50

PREFABRICATED GREEN ROOF DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN VRA Series geocomposites are designed for vegetative roof assembly (VRA) applications, which are also commonly referred to as "green roof", "roof garden", and "eco-roof" applications. SITEDRAIN VRA products provide the "middle layer" of a complete VRA system, providing lightweight and economical solutions for drainage, aeration, water storage, soil retention, root barrier, and waterproofing membrane protection.

SITEDRAIN VRA Series products are composed of a high-strength dimpled polymeric perforated core with a geotextile bonded to both sides. The spunbonded nonwoven geotextile on the top side allows water to pass through while retaining planting media and serving as a physical root barrier to inhibit root penetration by vegetation with low to moderately aggressive root structures. The core provides water storage capacity, as well as a continuous flow path for excess water to designated drainage exits. The needlepunched nonwoven geotextile on the bottom side provides protection to layers below, such as waterproofing membranes and insulation.

SITEDRAIN VRA 50 utilizes a 0.4"-thick core and is the appropriate selection for most VRA applications.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	VRA 50
GEOTEXTILE - TOP SIDE			
Material [2]			PP, SBNW
Survivability	AASHTO M288	Class	3
Grab Tensile Strength	ASTM D4632	lbs	150
		N	667
Grab Elongation	ASTM D4632	%	50
CBR Puncture	ASTM D6241	lbs	295
		N	1,312
Trapezoidal Tear	ASTM D4533	lbs	70
		N	310
UV Resistance	ASTM D4355	% / 500 Hrs	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80
		mm	0.180
Permittivity	ASTM D4491	sec^{-1}	1.0
Water Flow Rate	ASTM D4491	gpm / ft^2	70
		Lpm / m^2	2,850
CORE			
Material [2]			HIPS
Compressive Strength	ASTM D6364 ASTM D1621	psf	15,000
		kPa	718
Thickness	ASTM D5199	in	0.4
		mm	10
In-Plane Flow Rate [4] Hydraulic Gradient = 1.0	ASTM D4716	gpm/ft	18
		Lpm/m	224
In-Plane Flow Rate [4] Hydraulic Gradient = 0.1	ASTM D4716	gpm/ft	6
		Lpm/m	75
Water Storage Capacity	ASTM E2398	gal/ft^2	0.05
		L/m^2	2.0
Perforation Open Area	CALCULATED	in^2/ft^2	3.9
		mm^2/m^2	27,080
GEOTEXTILE - BOTTOM SIDE			
Material [2]			PP, NPNW
Grab Tensile Strength	ASTM D4632	lbs	100
		N	445
COMPOSITE			
Recycled Content [5]	CALCULATED	%	> 65
Roll Size	MEASURED	ft	4 x 50
Roll Weight	MEASURED	lbs	45
AWD Item Code			16070

[1] Unless otherwise noted, all physical and performance properties listed are Typical Value as defined in ASTM D4439.
[2] PP = Polypropylene; HIPS = High Impact Polystyrene; NPNW = Needle-Punched Nonwoven; 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.
[5] Pre-Consumer recycled content by weight.

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SITEDRAIN™ VRA 100

PREFABRICATED GREEN ROOF DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN VRA Series geocomposites are designed for vegetative roof assembly (VRA) applications, which are also commonly referred to as "green roof", "roof garden", and "eco-roof" applications. SITEDRAIN VRA products provide the "middle layer" of a complete VRA system, providing lightweight and economical solutions for drainage, aeration, water storage, soil retention, root barrier, and waterproofing membrane protection.

SITEDRAIN VRA Series products are composed of a high-strength dimpled polymeric perforated core with a geotextile bonded to both sides. The spunbonded nonwoven geotextile on the top side allows water to pass through while retaining planting media and serving as a physical root barrier to inhibit root penetration by vegetation with low to moderately aggressive root structures. The core provides water storage capacity, as well as a continuous flow path for excess water to designated drainage exits. The needlepunched nonwoven geotextile on the bottom side provides protection to layers below, such as waterproofing membranes and insulation.

SITEDRAIN VRA 100 utilizes a 1"-thick core for specialty applications requiring increased in-plane flow capacity and/or increased water storage capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	VRA 100
GEOTEXTILE - TOP SIDE			
Material [2]			PP, SBNW
Survivability	AASHTO M288	Class	3
Grab Tensile Strength	ASTM D4632	lbs	150
		N	667
Grab Elongation	ASTM D4632	%	50
CBR Puncture	ASTM D6241	lbs	295
		N	1,312
Trapezoidal Tear	ASTM D4533	lbs	70
		N	310
UV Resistance	ASTM D4355	% / 500 Hrs	70
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	80
		mm	0.180
Permittivity	ASTM D4491	sec^{-1}	1.0
Water Flow Rate	ASTM D4491	gpm / ft^2	70
		Lpm / m^2	2,850
CORE			
Material [2]			HIPS
Compressive Strength	ASTM D6364 ASTM D1621	psf	9,500
		kPa	455
Thickness	ASTM D5199	in	1
		mm	25.4
In-Plane Flow Rate [4] Hydraulic Gradient = 1.0	ASTM D4716	gpm/ft	80
		Lpm/m	933
In-Plane Flow Rate [4] Hydraulic Gradient = 0.1	ASTM D4716	gpm/ft	21
		Lpm/m	260
Water Storage Capacity	ASTM E2398	gal/ft^2	0.08
		L/m^2	3.3
Perforation Open Area	CALCULATED	in^2/ft^2	8.7
		mm^2/m^2	60,400
GEOTEXTILE - BOTTOM SIDE			
Material [2]			PP, NPNW
Grab Tensile Strength	ASTM D4632	lbs	100
		N	445
COMPOSITE			
Recycled Content [5]	CALCULATED	%	> 70
Roll Size	MEASURED	ft	3 x 50
Roll Weight	MEASURED	lbs	40
AWD Item Code			16080

[1] Unless otherwise noted, all physical and performance properties listed are Typical Value as defined in ASTM D4439.
[2] PP = Polypropylene; HIPS = High Impact Polystyrene; NPNW = Needle-Punched Nonwoven; 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.
[5] Pre-Consumer recycled content by weight.

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SITEDRAIN™ VRA-W SERIES

PREFABRICATED GREEN ROOF DRAIN

AWD
AMERICAN WICK DRAIN

PRODUCT OVERVIEW

SITEDRAIN VRA-W Series geocomposites are designed for vegetative roof assembly (VRA) applications, which are also commonly referred to as "green roof", "roof garden", and "eco-roof" applications. SITEDRAIN VRA products provide the "middle layer" of a complete VRA system, providing lightweight and economical solutions for drainage, aeration, water storage, soil retention, root barrier, and waterproofing membrane protection.

SITEDRAIN VRA-W Series products are composed of a high-strength dimpled polymeric perforated core with a geotextile bonded to both sides. The woven monofilament geotextile on the top side allows water to pass through while retaining planting media and serving as a physical root barrier to inhibit root penetration by vegetation with low to moderately aggressive root structures. The core provides water storage capacity, as well as a continuous flow path for excess water to designated drainage exits. The needlepunched nonwoven geotextile on the bottom side provides protection to layers below, such as waterproofing membranes and insulation.

SITEDRAIN VRA 50-W utilizes a 0.4"-thick core and is the appropriate selection for most VRA applications. SITEDRAIN VRA 100-W utilizes a 1"-thick core for specialty applications requiring increased in-plane flow capacity and/or increased water storage capacity.

PROPERTY [1]	TEST METHOD	UNIT OF MEASURE	VRA 50-W	VRA 100-W
GEOTEXTILE - TOP SIDE				
Material [2]			PP, WM	PP, WM
Survivability	AASHTO M288	Class	-	-
Grab Tensile Strength	ASTM D4632	lbs	430 x 240	430 x 240
		N	1,914 x 1,068	1,914 x 1,068
Grab Elongation	ASTM D4632	%	30 x 15	30 x 15
CBR Puncture	ASTM D6241	lbs	800	800
		N	3,560	3,560
Trapezoidal Tear	ASTM D4533	lbs	180 x 130	180 x 130
		N	801 x 579	801 x 579
UV Resistance	ASTM D4355	% / 500 Hrs	90	90
Apparent Opening Size (AOS) [3]	ASTM D4751	sieve	50	50
		mm	0.30	0.30
Permittivity	ASTM D4491	sec^{-1}	2.7	2.7
Water Flow Rate	ASTM D4491	gpm / ft^2	195	195
		Lpm / m^2	7,944	7,944
CORE				
Material [2]			HIPS	HIPS
Compressive Strength	ASTM D6364 ASTM D1621	psf	15,000	9,500
		kPa	718	455
Thickness	ASTM D5199	in	0.4	1
		mm	10	25.4
In-Plane Flow Rate [4] Hydraulic Gradient = 1.0	ASTM D4716	gpm/ft	18	80
		Lpm/m	224	933
In-Plane Flow Rate [4] Hydraulic Gradient = 0.1	ASTM D4716	gpm/ft	6	21
		Lpm/m	75	260
Water Storage Capacity	ASTM E2398	gal/ft^2	0.05	0.08
		L/m^2	2.0	3.3
Perforation Open Area	CALCULATED	in^2/ft^2	3.9	8.7
		mm^2/m^2	27,080	60,400
GEOTEXTILE - BOTTOM SIDE				
Material [2]			PP, NPNW	PP, NPNW
Grab Tensile Strength	ASTM D4632	lbs	100	100
		N	445	445
COMPOSITE				
Recycled Content [5]	CALCULATED	%	> 60	> 65
Roll Size	MEASURED	ft	4 x 50	3 x 50
Roll Weight	MEASURED	lbs	50	44
AWD Item Code			16220	16210

[1] Unless otherwise noted, all physical and performance properties listed are Typical Value as defined in ASTM D4439.
[2] PP = Polypropylene; HIPS = High Impact Polystyrene; 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.
[5] Pre-Consumer recycled content by weight.

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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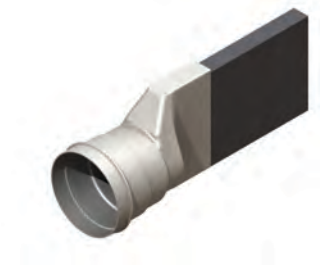
FITTINGS & ACCESSORIES

AWD
AMERICAN WICK DRAIN

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

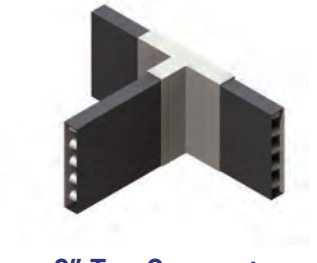
Geo-Outlet
10/box

Item: #20026

CONNECTORS:

12" Corner Guard
20/box

Item: #20022

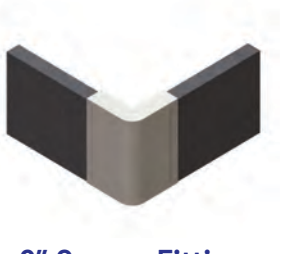


6" Tee Connector
10/box

Item: #20014

Step-Down Fittings
10/box

6" Strip Drain	Item: #20012
12" Strip Drain	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

AWD FITTING & JOINT TAPE

AWD
AMERICAN WICK DRAIN

PRODUCT DESCRIPTION

AWD Fitting & Joint Tape is recommended for the sealing, seaming, terminating, and connection of AWD Fittings and AWD geocomposite drainage products as referenced in AWD literature, including installation guides, CAD details, and technical bulletins. AWD Fitting & Joint Tape is designed for underground use and provides a strong bond that will not deteriorate over time in typical subsurface conditions.

AWD Fitting & Joint Tape has...

- 40 mil thick composite member,
- Reinforced polyolefin base, laminated to a polypropylene layer
- Adhesive-backed with removable release liner

PHYSICAL PROPERTIES	TEST METHOD	UNIT OF MEASURE	Typical Value
Tensile Strength Machine Direction (Force)	ASTM D751-95	lbs	130
Cross Direction (Force)		lbs	124
Trapezoidal Tear Strength Machine Direction (Force)	ASTM D4533-91	lbs	46
Cross Direction (Force)		lbs	44
Mullen Burst	ASTM D751-95	psi	180
UV Exposure (2000 hours)	ASTM G154-98	%	>90
Permeability (MVTR)	ASTM E96-B	Perms	<0.075
Recycled Content	CALCULATED	%	>45
Roll Size	MEASURED	in x ft	4 x 75

CIVIL & SITE SOLUTIONS

TRANSPORTATION SOLUTIONS

LANDSCAPE SOLUTIONS

SOIL CONSOLIDATION SOLUTIONS

ATHLETIC FIELD SOLUTIONS

RESIDENTIAL SOLUTIONS

BUILDING SOLUTIONS

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