

2018 Product Catalog

Residential Stormwater Management

Commercial Stormwater Management

Professional Irrigation

Flow Management







ndspro.com

Your knowledgeable and trusted partner for the best in water management solutions

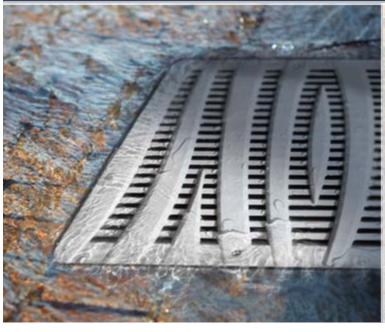






DRAINAGE

From your backyard patio to the neighborhood aquatic center, from the factory floor to a professional sports facility, NDS offers the right drainage solutions.











SUSTAINABLE STORMWATER SOLUTIONS

S5 by NDS™ offers a comprehensive solution in line with Low Impact Development policies by managing stormwater as close to its source as possible through runoff reduction and quality enhancement at the site scale. The S5 system is built around known and trusted components, providing solutions that offer 5 key benefits:

- Conservation of water resources to improve our well-being
- Management of stormwater at the source to reduce downstream impact
- Flexibility of system footprint allows for adaptive implementation
- Mitigation of pollution and erosion to protect water systems
- Replenishment of groundwater to help ensure future supply

A single-source solution, S5 by NDS is easy to specify, qualifies for LEED credits and offers up to 250% more detention volume than traditional gravel systems.

Design Your S5 System

An effective onsite stormwater system can be designed in 5 easy steps:

- **Identify Sources Stormwater runoff may come** from point sources like downspouts, as sheet flow from parking lots, irregularly through drainage ways in the landscape, or even as elevated groundwater.
- **Select Method of Capture -** Each runoff source has a practical method of capture for conveyance to the detention and infiltration area.
- **Determine Peak Flow and Detention Volume -**The quantity of runoff for a given rainfall event over a defined area is easily calculated when surface type and rainfall intensity are known by using the Rational Method formula Q = CiA. Applicable regulations generally provide guidance on the rainfall intensity to use for a given set of circumstances.
- Size the System Detention and infiltration devices have measured holding capacities. Select the appropriate quantity and arrangement of devices to handle the predetermined runoff volume calculated above. Also consider the capacity of conveyance and overflow piping.
- **Determine Field Layout Site constraints including** setbacks, landform, soil types, fixed objects and open space, among others, will inform the location and arrangement of system components. Each element of runoff capture, filtration, conveyance, detention, infiltration and overflow must be considered.

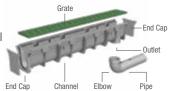
CAPTURE

Catch basins receive runoff from downspouts and landscaped areas. Channel drains accept sheet flows from paved walks and parking.

FILTRATION

Basins and channel grates provide a front line of debris filtration; adding fabric filters contributes further removal of fines from stormwater, extending system life. Chamber systems have advanced filtration options.





CONVEYANCE

Smooth-wall and corrugated pipe with compatible fittings and adapters convey stormwater from the point of capture to the detention and infiltration area. Select pipe type and set pipe slope to handle the anticipated runoff volumes based on established pipe-flow characteristics. Using EZflow for conveyance may reduce the footprint of downstream detention and infiltration areas.

DETENTION & INFILTRATION

Flo-Well® manufactured dry wells provide 50 gallons of detention volume. Each unit has multiple connection points including sidewall and top-cover knock outs to receive 3" to 8" pipe. Flo-Wells are stackable and can be arranged in multiple configurations.

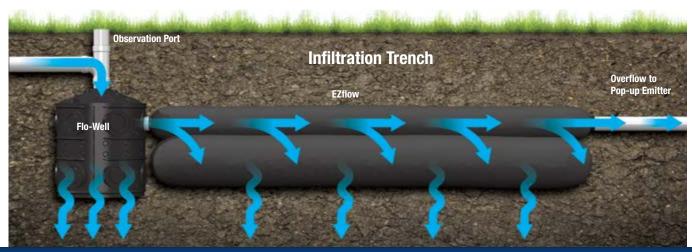


EZflow® engineered French drains are 10' bundles of Poly-Rock aggregate with or without corrugated drain pipe. Bundles are available in 7", 10" and 15" diameters, with or without 3", 4"or 6" pipe, respectively. A standard infiltration trench consists of a 10" bundle with 4" pipe atop two 15" aggregate-only bundles, providing over 100 gallons of detention volume.

OVERFLOW

Pop-up emitters allow excess runoff beyond system capacity to discharge in a safe location.







SUSTAINABLE STORMWATER SOLUTIONS

NDS components can be configured to meet a wide variety of residential and commercial applications.

CAPTURE

S5 offers several options to collect stormwater from various sources.

- · Catch basins function effectively as area drains and for downspouts from roofs
- · Channel drains intercept sheet flow from paved surfaces
- Permeable grass and gravel paver systems with underdrains collect stormwater from walkways and parking areas when used as alternatives to traditional impermeable solutions

FILTER

Prevent debris and other suspended solids in stormwater from impairing system function.

- · Basin and channel grates provide a front line of mechanical filtration
- Fabric filters contribute further removal of fines from stormwater, extending system life
- Grass and gravel paver systems naturally filter and clean stormwater while flowing through the S5 permeable paver solutions

CONVEY

Move stormwater from its sources to downstream detention, infiltration and overflow components.

- Smooth-wall and corrugated pipe with appropriate fittings and adapters have known flow characteristics to get the job done
- Using EZflow® for conveyance will also increase system detention and infiltration, effectively reducing the footprint of the downstream detention area

DETAIN

S5 detention components provide efficient volume to minimize runoff and maximize infiltration.

Flo-Well® dry wells and EZflow® infiltration-trench arrangements have defined volumes for this purpose

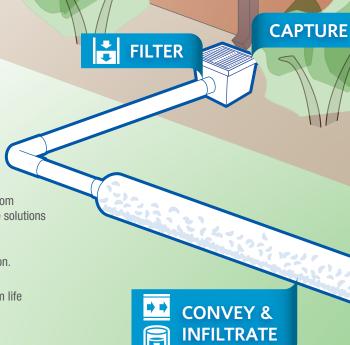
INFILTRATE

Arrange Flo-Well® dry wells and EZflow® infiltration trenches in customizable configurations and at depths suitable to existing site conditions, soil types and groundwater elevations.

Flo-Well® has an open bottom and side knockouts to allow direct infiltration, and EZflow®
maximizes soil-contact area for effective infiltration

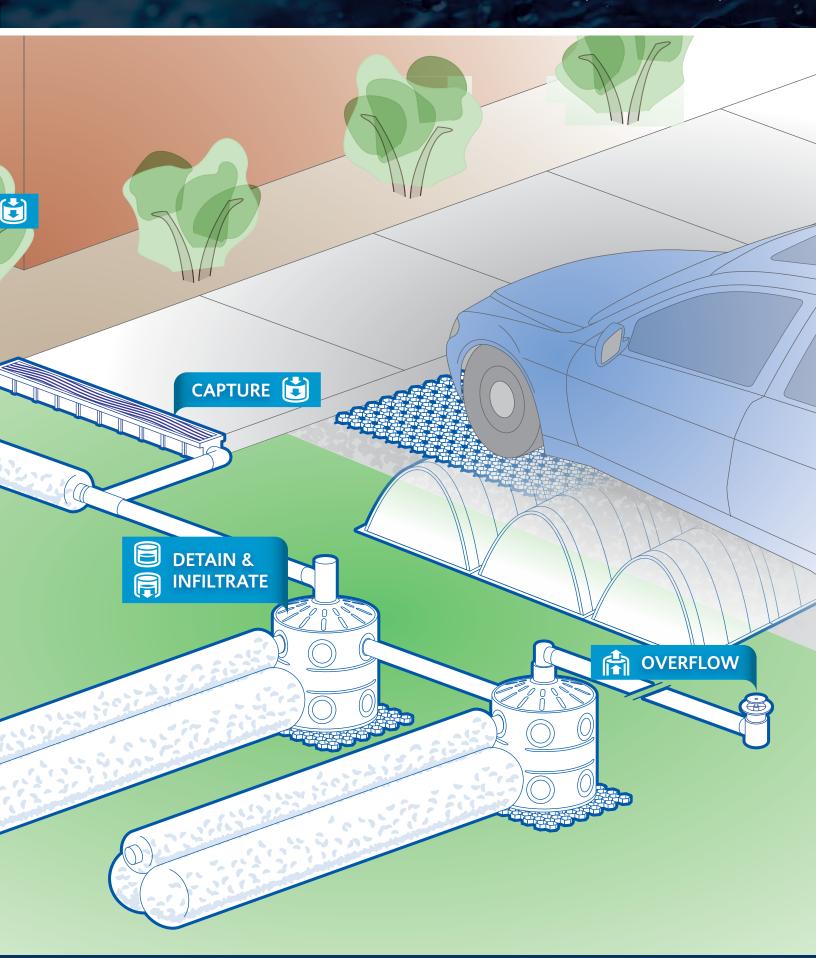
OVERFLOW

Allow for excess stormwater beyond the design storm to overflow from the system in a safe, suitable downstream location.



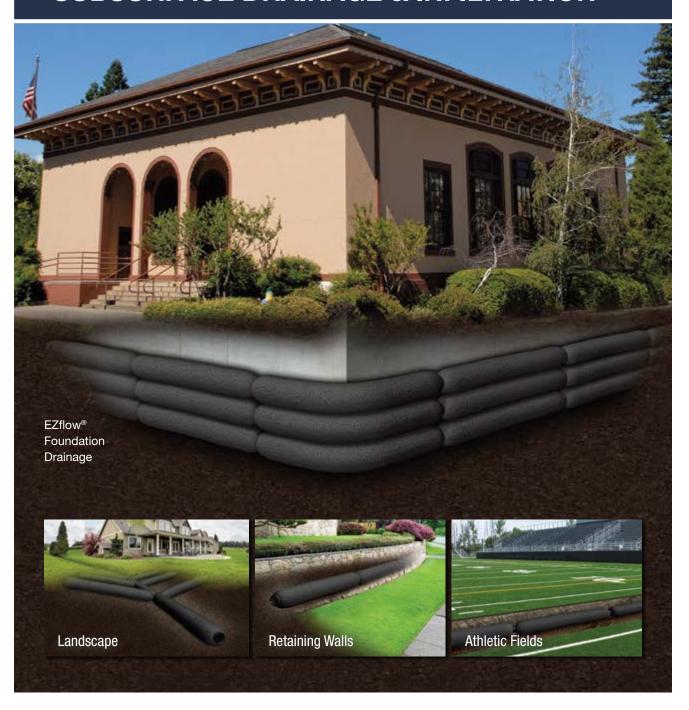








SUBSURFACE DRAINAGE & INFILTRATION



THE NDS SOLUTION

Whether you need a dry well or a French drain, NDS has you covered with innovative and proven subsurface drainage and stormwater infiltration products. EZflow® French drain system and Flo-Well® dry well provide trusted performance for multiple applications and are lightweight and easy to install. These engineered solutions are proven time-and-labor savers that outperform traditional systems in flow through and storage capacity. When performance and sustainability matter, NDS solutions are the preferred choice of contractors, engineers and landscape architects. EZflow® and Flo-Well® are made in the USA and each contribute to project LEED credits when used as part of the stormwater management design and by contributing to the proportion of recycled materials.





EZflow®

EZflow® offers an engineered and gravel-free alternative to a traditional French Drain system.

EZflow® can be used to lower subsurface groundwater elevations; protecting property and improving the health of playing fields and planted areas. It can also be used as an infiltration trench for managing stormwater runoff. Available in multiple diameters with or without pipe, this versatile product is an effective component of subsurface drainage and infiltration systems.

- · Installs in half the time of traditional gravel systems
- Better flow capacity than traditional stone-and-pipe systems
- Up to H-10 load rating with 12" of compacted soil cover
- · Over 100 million linear feet installed

Flo-Well®

Flo-Well® engineered dry well presents an easy to install and sustainable solution for managing stormwater runoff. Flo-Well® is a gravel-free alternative to a traditional dry well with up to 250% more detention volume. Used independently or as part of a larger system, Flo-Well® units collect and detain stormwater allowing for groundwater recharge. Units are modular and can be connected in series or stacked to meet a variety of project needs.

- Up to 50 gallons of detention volume per unit
- · Connect units in series for larger volumes or stack for reduced footprint
- Fast and easy installation with no heavy equipment or gravel needed
- Manufactured from 100% recycled materials



EZFLOW®: A BETTER FRENCH DRAIN



Gravel-free installation provides up to 50% labor savings over traditional systems

Better flow through and detention volume than traditional systems

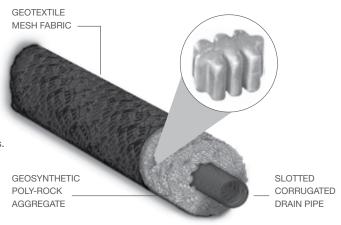
Durable with a 100-year lifespan

Projects qualify for LEED credits

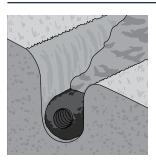
EZflow is a key component in the NDS S5 system

EZflow® Drainage Bundles

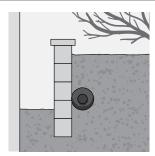
EZflow® drainage bundles are 10 feet in length with a slotted pipe surrounded by expanded polystyrene aggregate and enclosed in geotextile mesh. Configurations are available in 7-inch bundles with or without a 3-inch pipe, 10-inch bundles with or without a 4-inch pipe, and 15-inch bundles with or without a 6-inch pipe. Accessories include 3-inch, 4-inch, and 6-inch internal couplers and end caps. EZflow® bundles can also be used with internal tees, and internal wyes. The 15-inch bundles are available with the pipe located in the center or bottom of the bundle for varying applications. Unless specifically required by code or other requirement, the pipe can be either centered or at the bottom of the bundle.



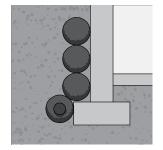
Applications



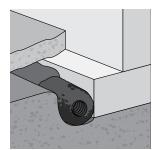
French/Interceptor Drains



Planter/Retaining Walls



Foundation Drains



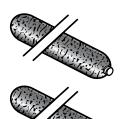
Basement/Crawlspace

EZflow® drainage systems are appropriate for a wide range of applications and are a convenient alternative to traditional stone and pipe drainage, storage and infiltration systems. EZflow® drainage systems can be used as a substitute for stone in most applications where the stone is not utilized for structural support. A professional engineer, landscape architect or other qualified design professional should be consulted for complex applications.

Product selection is relative to the desired application and benefits from establishing anticipated flow into, through and out of a proposed drainage system configuration. Selection considerations include: bundle sizing and storage volume, the presence or absence of pipe, pipe size and location within the bundle, and arrangement of bundles. Design factors may include: length of system, watershed area, soil type and permeability, groundwater levels and system discharge opportunities. EZflow® drainage storage volumes and pipe discharge rates are listed on the next page.

EZFLOW® ENGINEERED FRENCH DRAIN

EZflow® Gravel-Free French Drain



Part No.	Description	Color	Bundle size/ Linear Feet	Wt. per Bundle (lbs.)	Product Class	Specifications
EZ-0701F	7" mesh with 3" slotted pipe (center)	Black	90	32.4	11RP	10 ft. polyethylene slotted drain pipe surrounded by
EZ-1001F	10" mesh with 4" slotted pipe (center)	Black	50	29.5	11RP	100% recycled polystyrene aggregate and enclosed
EZ-1501F	15" mesh with 6" slotted pipe (center)	Black	20	26.0	11RP	in 30-sieve polyethylene geotextile mesh.
EZ-0701A	7" mesh without pipe – aggregate only	Black	90	18.0	11RP	10 ft. segment of 100% recycled polystyrene
EZ-1001A	10" mesh without pipe – aggregate only	Black	50	13.5	11RP	aggregate only, enclosed in 30-sieve polyethylene
EZ-1501A	15" mesh without pipe – aggregate only	Black	20	12.4	11RP	geotextile mesh.

EZflow® Internal Couplings & End Caps





Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3C05	3" Corrugated Internal Coupling	Black	60/box	0.30	11RP
4C07	4" Corrugated Internal Coupling	Black	36/box	0.30	11RP
6C07	6" Corrugated Internal Coupling	Black	12/box	0.80	11RP
3C06	3" Corrugated End Cap	Black	33/box	0.30	11RP
4C06	4" Corrugated End Cap	Black	21/box	0.50	11RP
6C06	6" Corrugated End Cap	Black	15/box	0.50	11RP

Storage & Flow for EZflow® Drainage Bundles (45% void space among consolidated EPS aggregate)

Pipe Bundles									
Product	Storage Volume (gallons/10 ft. bundle)	Flow Capacity (gpm @ 1% slope)							
EZ-0701F	11.4	80.8							
EZ-1001F	21.5	130.9							
EZ-1501F	45.8	345.0							





EZ-1501	
15"	
6" PIPE (CENTERED)	

Aggregate-Only Bundles									
Product	Storage Volume (gallons/10 ft. bundle)	Flow Capacity (gpm @ 1% slope)							
EZ-0701A	8.8	37.1							
EZ-1001A	17.2	75.7							
EZ-1501A	36.5	170.3							









FLO-WELL®: A BETTER DRY WELL



With the Flo-Well®, water can now be discharged into the subsoil rapidly and easily. Unlike competitive systems, there is no need for piping systems to transport stormwater to a far-off discharge point, large heavy equipment, considerable excavation of current landscaped areas, nor large labor costs that those systems incur. With Flo-Well, water dispersion is now easier than ever. Flo-Well is a key component in the NDS S5 System.

Options

Larger 9" or 12" grates can be added to Flo-Well to manage surface water.

This option is ideal for draining:

Golf course areas prone to puddling

Playground areas under slides and swings

Outdoor drinking fountain runoff

Outdoor showers at beaches

Wash-down areas

Ideal as a stand-alone drain:

Disturbs only 4 square feet of turf to install

Requires less than 10 cubic feet of soil removed to bury

Measures only 24" in diameter by 28.75" high

Weighs only 22 pounds

Holds over 48 gallons. Or, connect to existing system for increased drainage capabilities

Ideal as a stand-alone reservoir:

Collect and hold rainwater for lawn and garden irrigation (used with a pump connected to a garden hose)

Connect Flo-Well to rain gutters using a catch basin & grate below each downspout (see drawing)

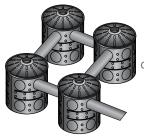
Ideal solution for arid areas impacted by drought

Reservoir for pond and waterfall recirculation pumps

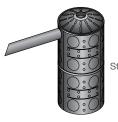


Stackable & Expandable

Flo-Well® can be used individually, connected in series or in any array, and can be stacked up to 4 units high (with center support pipe).

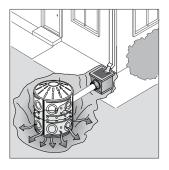




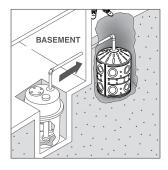


Stacked

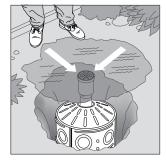
Applications



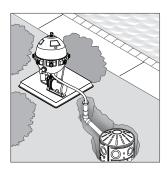
For gutters and downspouts



Install with sump pumps



Eliminates puddles



Backwash tank

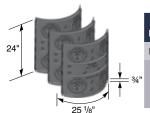
FLO-WELL® ENGINEERED DRY WELL



	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	FWAS24WH	24" diam. x 28.75"H Flo-Well® Stormwater Leaching System	Black	1	18.96	10FW	NDS #FWAS24WH structural foam polyolefin round drywell system
		Includes 3 side panels, 1 top component	with UV inhibitors. 50 gal. storage capacity.				
ı		Fits 4" Sch. 40 Pipe and 4" DWV Pipe.	capacity.				



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
FWAS24CWH	24" diam. Flo-Well® Cover	Black	2	5.92	10FW	Structural foam polyolefin round drywell system cover with UV inhibitors. 24-1/4" dia., 4-1/2" height, 3/4" outer lip, 4.5" center knockout fits NDS #FWSD69, std pipe and 4" Sch. 40 pipe.	
	Use with #FWAS24.						



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
FWSPS3WH	Flo-Well® Side Panels/Extension Only Includes 3 side panels; makes 1 round d (May also be used as a durable compost bin)	Black rywell.	1	4.35	10FW	Structural foam polyolefin side panels with UV inhibitors with 22 1-1/2" knockout leaching ports and 4 4.5" knockout inlet/outlet ports per panel. 0.75" lip for firm stacking.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
FWBP24	24" diam. Flo-Well® Bottom Fits #FWAS24. (Not included in #FWAS24 kit)	Black	5	3.41	10FW	Structural foam polyolefin round Flo-Well® bottom with UV inhibitors. 24" diameter with six 1-1/2" leaching ports. Collects debris for easy cleanout.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
FWSD69	4" Sch. 40 Surface Drain Inlet with Grate Fits #FWAS24 and #FWAS24C. ADA Compliant.	Black	8	1.85	10FW	Structural foam polyolefin 6" grate with 4" inlet with UV inhibitors. 6" diameter at inlet. 9" high. 4.5" OD fits Sch. 40 PVC fittings. Open surface area 8.22 square inches. 25.15 GPM.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
FWFF67	Porous Filter Fabric Wrap for Flo-Well®	Black	1	0.35	10FW	7' long x 2' wide to surround Flo-Well®
	Use with #FWAS24.					Drywell System. Non-woven fabric. Weight 1 oz. Mullen burst 175 psi. 200 GPM flow-through.





NDS catch basins and grates collect surface water while minimizing the amount of debris entering the system

Available in a range of sizes from 6" round to 24" square, and with various grating and filter options for commercial and residential systems.

NDS Drainage Solutions

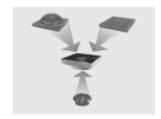
NDS offers a complete line of catch basins and grates for residential and commercial stormwater management solutions. NDS catch basins have sump areas that collect debris and prevent clogging of the pipeline, and grates are available in a variety of patterns and colors to blend in with surrounding surfaces. Depending on the size of the round, square, or atrium grates, they may fit directly into a riser of pipe, sewer and drain fitting, or our catch basins.





Spee-D® Basin





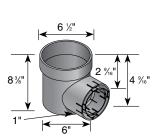
Small Grates

Large Catch Basin

Adapter

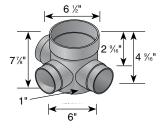
Spee-D® Basins

Use our compact 6" round Spee-D Basins with grates to collect runoff water while its sump area collects debris and prevents clogging. Also use Spee-D Basins with 6" Pop-Up Emitters to provide a point of discharge or overflow in a drainage system.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
101	1 - 3" and 4" Locking Outlet	Black	10	1.60	10ND	6" styrene catch basin
101ATBLKIT	Spee-D Basin with 6" Black Atrium Grate	Black Grate	8	n/a	10ND	with locking outlet. 68 GPM per outlet capacity.
101GRKIT	Spee-D Basin with 6" Green Round Grate	Green Grate	6	n/a	10ND	
101SQGRKIT	Spee-D Basin with 9" x 9" Green Square Grate	Green Grate	8	n/a	10ND	
201	3" and 4" Locking Outlets*	Black	10	1.83	10ND	101 201
	Spee-D Basins and kits fit 3" or 4" Sewer & Drain Pipe, Triple Wall Pipe. Use new Spee-D Riser or 6" Sewer and waterproof silicone to make water-tight connections. Lo	Kits contain 1-outlet Spee-D Basin & Grate as described.				

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
101R	Spee-D Basin Riser	Black	n/a	n/a	10ND	6" Riser for Spee-D Basin.			
	Use with any Spee-D Basin to add from 2" to 6" to to 1" increments. Compatible with all grates that fit Spe	Styrene.							

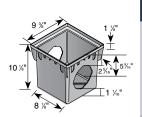


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
250	2 - 3" and 4" 90° Outlets	Black	12	1.64	10ND	6" styrene catch basin	
300	3 - 3" and 4" Outlets	Black	12	1.82	10ND	with locking outlet. 83 GPM per outlet capacity.	
350	3" and 4" Outlets	Black	12	2.00	10ND		
	Fit 3" or 4" Sewer & Drain Pipe, 3" or 4" Corrugated Pi and Drain Pipe as a riser for all 6" round catch basins.					250 300 350	

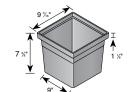
9" Catch Basin Series



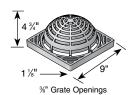
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
900FF	9" Catch Basin Filter	Blue Frame/ Black Bag	8	0.06	10ND	Polypropylene Frame Fabric is non-woven		
	Compatible with these basins: 900, 900-4 and 916 NDS Catch Basins, Risers and Kits							



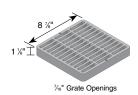
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
900BLKIT	9" x 9" Catch Basin Kit	Black Grate	4	4.90	10ND	9" x 9" tapered Catch
900GRKIT	9" x 9" Catch Basin Kit	Green Grate	4	4.90	10ND	Basin. Polypropylene.
900KITDISP	9" x 9" Catch Basin Kit	Black Grate	8	39.2	10ND	Kits include 2-opening
900	9" x 9" Catch Basin 2-opening	Black	4	2.18	10ND	Catch Basin, Grate, Screws, 2 Outlets and
900-4	9" x 9" Catch Basin 4-opening	Black	4	2.00	10ND	1 Plug.
	DISP includes display box.					



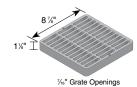
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
916	9" x 9" Catch Basin Riser	Black	4	1.75	10ND	6" Riser for 9" x 9 Catch
	Use with 9" x 9" Catch Basin Series. Stacks on top Can be cut to size.	Basin. Styrene.				



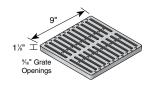
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
981	9" x 9" Atrium Grate	Black	6	0.87	10ND	9" Structural Foam Polyolefin Dome Atrium Grate with UV inhibitor.		
991	9" x 9" Atrium Grate	Green	6	0.87	10ND			
	Use with 9" x 9" Catch Basin Series.					Open surface area 31.50 square inches. 96.36 GPM.		



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
980	9" Square Grate	Black	8	1.50	10ND	9" Square Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 37.49 square inches. 114.69 GPM.
990	9" Square Grate	Green	8	1.50	10ND	
999	9" Square Grate	Gray	8	1.50	10ND	
999S	9" Square Grate	Sand	8	1.50	10ND	
A	Use with 9" x 9" Catch Basin Series. NDS #980, 990, 999, 999S: Class A Load Rated. AD/					
	(see page 75). ADA Compliant.					



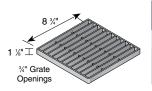
Part No.	Description			Wt. Ea. Ibs.	Product Class	Specifications			
930B	9" Square Brass Grate	Brass	1	5.11	15BR	Open surface area 34.00			
	(see page 75). ADA Compliant.					square inches. 104.01 GPM. Includes SS Screws.			



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
913	9" Square Ductile Iron Grate	Black	4	7.89	10ND	9" Square Heavy-Duty
	Use with 9" x 9" Catch Basin Series.		Ductile Iron Grate. Open surface area 21.70 square			
•• •• •	(see page 75)					



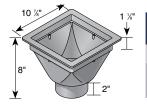
9" Catch Basin Series (continued)



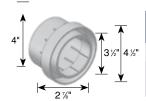
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
915	9" Square Galvanized Steel Grate	Galvanized Steel	4	3.80	10ND	9" Square Heavy-Duty Galvanized Steel Bar Grate. Open surface area 61.94 square inches. 189.48 GPM.		
	Use with 9" x 9" Catch Basin Series. (see page 75)							



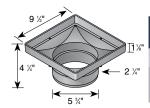
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
930	9" x 9" Low-Profile Adapter	Black	8	0.75	10ND	9" x 9 Low-Profile Adapter.
930ATBLKIT 930GRKIT	9" x 9" Low-Profile Adapter with Black Atrium Grate and 3" & 4" Universal Locking Outlet 9" x 9" Low-Profile Adapter with Flat Green Grate and 3" & 4" Universal Locking Outlet	Black Grate Green Grate	8	n/a n/a	10ND 10ND	Styrene. Kits contain Low-Profile Adapter, 3" & 4" Universal Locking Outlet and Grate
	Adapter alone requires #1242, #1243, #1245, #1266 Sewer and Drain or Corrugated Pipes (see page 33).	as described.				



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
931	9" x 9" Deep Housing Spigot Adapter	Black	10	2.40	10ND	9" x 9" Square Deep	
	Fits 4" Corrugated Pipe.		Housing Spigot Adapter. Styrene.				
	Use #933 to adapt to 4" Sewer and Drain Pipe.						



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
933	Adapter Bushing	Black	20	0.30	10ND	Styrene.
	Fits 4" Sewer and Drain Pipe.					
	Use Housing Adapter Bushing with #931.					

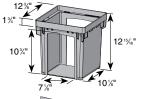


Part No.	Description		Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
932	9" x 9" Low-Profile Housing Adapter	Black	8	1.13	10ND	NDS #932, 9" x 9" Square			
	Fits 6" Spee-D® Basin and 6" Sewer and Drain Pipe	Low-Profile Housing Adapter with 6" Outlet. Styrene.							

12" Catch Basin Series

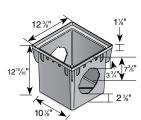


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1200FF	12" Catch Basin Filter	Blue Frame/ Black Bag	8	0.10	10ND	Polypropylene Frame Fabric is non-woven		
	Compatible with these basins: 1200, 1200NGB, 120	225 NDS Cat	ch Basins & K	its.	geotextile 956 PM/SF.			

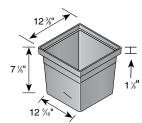




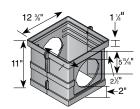
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1200NGBKIT	12" x 12" Catch Basin, 2 Open Slides	Black	4	4.65	10ND	Adjustable Outlet Catch
1200NGB	12" x 12" Catch Basin	Black	4	3.45	10ND	Basin. Sides adjust to 3 different outlet elevations.
1207	Open Slide for 1200NGB	Black	8	0.60	10ND	Polypropylene basin and
1208	Plug Slide for 1200NGB	Black	8	0.76	10ND	styrene sides.
	Compatible with 12" x 12" Catch Basins, Risers					



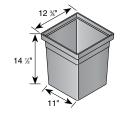




Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1216	12" x 12" Catch Basin Riser	Black	8	2.75	10ND	6" Riser for 12" Catch Basin, Styrene,		
	Use with 12" x 12" Catch Basin Series. Stacks on top of 12" catch basins to add up to 6" to top of basin. Can be cut to size.							



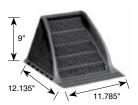
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
1217	12" x 12" Riser with 2 Openings	Black	4	4.00	10ND	12" Riser with Two Openings. Styrene.			
	Nests on top of 12" Catch Basin Series for shallow outlets and 12" Sump Box for more sump area. Requires either #1206, #1242, #1243, #1245, #1266 or #1889 Universal Outlet to connect pipe to riser.								



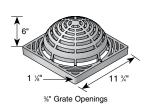
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1225	12" x 12" Sump Box	Black	4	6.75	10ND	One-piece 12" Sump Box.
	Use with 12" x 12" Grate or #1220 Valve Box Co		Styrene.			



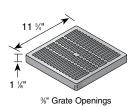
12" Catch Basin Series (continued)



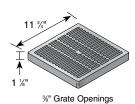
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
1200DSG	12" x 12" Downspout Grate	Black	8	n/a	10ND	12" x 12" Downspout Grate.	
	Receives downspouts from 2" to 6" round or squa Fits all NDS 12" square Catch Basins, Risers and L	Structural Foam Polyolefin with UV inhibitor.					



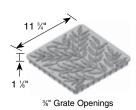
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1280	12" x 12" Atrium Grate	Green	8	1.74	10ND	12" Structural Foam Polyolefin Dome Atrium Grate with UV inhibitor.
1290	12" x 12" Atrium Grate	Black	8	1.74	10ND	
	Use with 12" x 12" Catch Basin Series.		Open surface area 50.60 square inches. 154.79 GPM.			



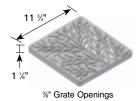
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1210	12" x 12" Square Grate	Gray	8	2.33	10ND	12" Square Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 50.76 square inches. 155.28 GPM.
1211	12" x 12" Square Grate	Black	8	2.33	10ND	
1212	12" x 12" Square Grate	Green	8	2.33	10ND	
1212S	12" x 12" Square Grate	Sand	8	2.33	10ND	
	Use with 12" x 12" Catch Basin Series.					
	(see page 75). ADA Compliant.					



Part No.	Description			Wt. Ea. lbs.	Product Class	Specifications
1230B	12" Square Brass Grate	Brass	1	9.24	15BR	Open surface area 42.87
	(see page 75). ADA Compliant.					square inches. 131.14 GPM. Includes SS Screws.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1218S	12" x 12" Square Botanical Grate	Sand	8	3.27	10ND	12" Square Structural
1218GR	12" x 12" Square Botanical Grate	Green	8	3.27	10ND	Foam Polyolefin Botanical Grate with UV inhibitor.
1218GY	12" x 12" Square Botanical Grate	Gray	8	3.27	10ND	Open surface area 24.44
1218	12" x 12" Square Botanical Grate	Black	8	3.27	10ND	square inches. 74.77 GPM. Class B load rated.
839	Stainless Steel Screws, FH #6 x 1-3/4"	Metal	40	n/a	10ND	oldoo b lodd latod.
	(see page 75). ADA Compliant.					

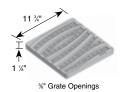


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1218CI	12" x 12" Square Botanical Cast Iron Grate	Raw Iron	1	12.67	10ND	12" Square Cast Iron		
629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40	n/a	10ND	Botanical Grate. Open surface area 24.44 square		
	(see page 75). ADA Compliant.					inches. 74.77 GPM. Class B load rated.		

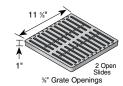
12" Catch Basin Series (continued)



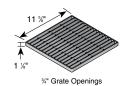
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1224S	12" x 12" Square Wave Grate	Sand	8	2.68	10ND	12" Square Structural
1224GR	12" x 12" Square Wave Grate	Green	8	2.68	10ND	Foam Polyolefin Wave Grate with UV inhibitor. Open surface area 25.67 square inches. 78.53 GPM. Class B load rated.
1224GY	12" x 12" Square Wave Grate	Gray	8	2.68	10ND	
1224	12" x 12" Square Wave Grate	Black	8	2.68	10ND	
839	Stainless Steel Screws, FH #6 x 1-3/4"	Metal	40	n/a	10ND	
	(see page 75). ADA Compliant.					



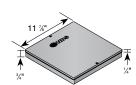
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1224Cl	12" x 12" Square Wave Cast Iron Grate	Raw Iron	1	13.90	10ND	12" Square Cast Iron
629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40	n/a	10ND	Wave Grate. Open surface area 25.60 square inches. 78.31 GPM. Class B load rated.
	(see page 75). ADA Compliant/Heel-proof.					



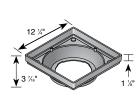
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
1213	12" x 12" Square Ductile Iron Grate	Black	1	15.30	10ND	12" Square Heavy-Duty	
	Use with 12" x 12" Catch Basin Series. (see page 75). ADA Compliant.					Ductile Iron Grate. Open surface area 37.20 square inches. 113.80 GPM.	



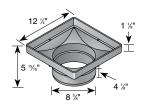
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
1215	12" x 12" Square Galvanized Steel Grate	Galvanized Steel	1	5.85	10ND	12" Square Heavy-Duty	
	Use with 12" x 12" Catch Basin Series. (see page 75)					Galvanized Steel Bar Grate. Open surface area 113.78 square inches. 348.07 GPM.	



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1220	12" x 12" Sump Pump Box	Black	8	2.23	10ND	NDS #1220, 12" Square Structural Foam Polyolefin Solid Cover.
	Use with NDS 12" x 12" Catch Basin Series and NDS #	‡1219 Backwater Va	lve Box.			



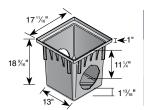
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1230	12" x 12" Low-Profile Adapter	Black	8	1.25	10ND	12" x 12" Low-Profile
1230ATBLKIT	12" x 12" Low-Profile Adapter with Black Atrium Grate and 3" & 4" Universal Locking Outlet	Black Grate	8	n/a	10ND	Adapter. Styrene. Kits contain Low-Profile
1230GRKIT	12" x 12" Low-Profile Adapter with Flat Green Grate and 3" & 4" Universal Locking Outlet	Green Grate	8	n/a	10ND	Adapter, 3" & 4" Universal Locking Outlet and Grate
	6" or 8"	as described.				



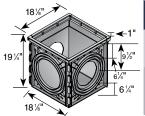
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1221	12" x 12" Square, Low-Profile Adapter – Fits 8" Sewer & Drain Pipe	Black	12	1.92	10ND	12" x 12" Low-Profile Adapter. Styrene.
1222	12" x 12" Square, Low-Profile Spigot Adapter – Fits 8" Corrugated Pipe	Black	12	1.92	10ND	
	Fits 8" Sch 40, Corrugated Spigot, S&D Hub.					



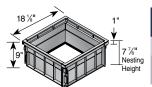
18" Catch Basin Series



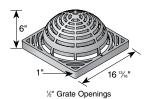
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1882	18" One-Piece Catch Basin 2 Openings	Black	1	10.00	10ND	18"x18" One-Piece Tapered Catch Basin. Structural Foam
1884	18" One-Piece Catch Basin 4 Openings	Black	1	9.65	10ND	
	Requires either #1206, #1242, #1243, #1245, #126 Includes 2 or 4 #1890 Reducer Rings.	Polyolefin.				



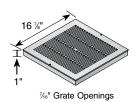
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1800	18" x 18" Expandable Catch Basin 2 Openings*	Black	1	16.00	10ND	18" x 18" Modular Catch
1804	18" x 18" Expandable Catch Basin 4 Openings*	Black	1	16.00	10ND	Basin with Locking Tabs. Styrene.
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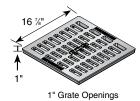
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1816	8" Riser for 18" Catch Basin	Black	1	6.00	10ND	8" Riser for 18" x 18"		
	Riser package includes 4 sides. Use with #1800, #1804, #1882 or #1884.					Catch Basin. Styrene.		



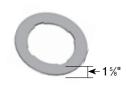
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1881	18" x 18" Atrium Grate	Black	2	6.51	10ND	18" Structural Foam Polyolefin Dome Atrium Grate with UV inhibitor.		
1891	18" x 18" Atrium Grate	Green	2	6.51	10ND			
	Use with 18" x 18" Catch Basin Series.					Open surface area 89.40 square inches. 273.49 GPM.		



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1810	18" x 18" Square Grate	Gray	4	7.72	10ND	18" Square Structural
1811	18" x 18" Square Grate	Black	4	7.72	10ND	Foam Polyolefin Grate with UV inhibitor. Open
1812	18" x 18" Square Grate	Green	4	7.72	10ND	surface area 86.31 square
	Use with 18" x 18" Catch Basin Series.	inches. 264.03 GPM.				
	(see page 75). ADA Compliant.					

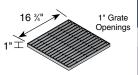


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
1813	18" x 18" Cast Iron Square Grate	Black	1	46.00	10ND	18" Square Heavy-Duty	
	Use with 18" x 18" Catch Basin Series.					Cast Iron Grate. Open surface area 110.70 square inches. 338.65 GPM. H-20 Load Rating.	

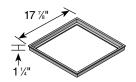


Part No.	Description	Color	Pkg. Qty.		Product Class	Specifications
1890	Universal Outlet Reducer Ring	Black	8	0.33	10ND	Styrene.
	Required on #1821 basin side when using 3", 4" or #1206, #1243, #1245, #1266 or #1889 Universal 0					

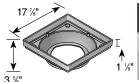
18" Catch Basin Series (continued)



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1815	18" Square Galvanized Steel Grate	Galvanized Steel	1	10.78	10ND	18" Square Heavy-Duty		
	Use with 18" x 18" Catch Basin Series. (see page 75)					Galvanized Steel Bar Grate. Open surface area 239.00 square inches. 731.13 GPM.		

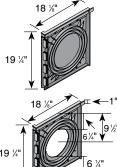


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1840	Frame to adapt 18" x 18" grate to concrete catch basin	Black	4	2.00	10ND	18" x 18" Frame. Styrene.
	Use with 18" x 18" Grates.					

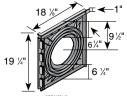


Part No.	Description		Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
1830	18" x 18" Low-Profile Adapter	Black	4	4.75	10ND	18" x 18" Low-Profile			
	Adapter. Styrene.								

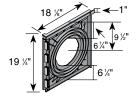
18" Component Parts



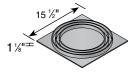
Part No.	Description		Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1820	Basin Side – No Opening	Black	4	4.00	10ND	18" x 18" Catch Basin Side, No Opening. Styrene.		



Part	No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1821		Basin Side – 8" Opening	Black	4	4.00	10ND	18" x 18" Catch Basin Side,
	Reducer Ring not included. Requires #1888 Universal Outlet to fit 8" Corrugated Pipe or Sewer and Drain Pipe or #1266 Universal Outlet #1889 Universal Outlet does not fit this #1821 Basin Side.						8" Opening. Styrene.



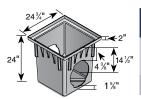
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1822	Basin Side – 6" or 8" Opening	Black	4	3.75	10ND	18" x 18" Catch Basin Side, 6" or 8" Opening, Styrene.
	Opening using Universal Outlet. Includes #1890 Reducer Ring. Use with #1206, #1242, #1243, #1245, #1266 or #1888 Universal Outlets.					



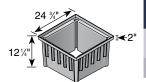
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1828	Basin Bottom	Black	4	2.50	10ND	18" x 18" Catch Basin		
						Bottom. Styrene.		



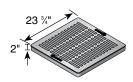
24" Catch Basin Series



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
2400	24" x 24" Catch Basin, 2 Openings	Black	1	18.00	10ND	24" x 24" One-Piece
2404	24" x 24" Catch Basin, 4 Openings	Black	1	15.00	10ND	Tapered Catch Basin. HDPE with Structural Foam.
	Requires 2 or 4 #2410 Universal Outlets.					

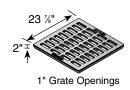


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
2418	24" x 24" Catch Basin Extension (No Bottom)	Black	1	14.60	10ND	8" Extension for 24" x 24" Catch Basin. HDPE with			
	Use with 24" x 24" Catch Basin Series.					Structural Foam.			

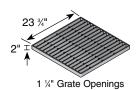


%" Grate Openings

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
2411	24" x 24" Square Grate	Black	1	19.75	10ND	24" Square HDPE with
2412	24" x 24" Square Grate	Green	1	19.75	10ND	Structural Foam Grate with UV inhibitor. Open surface
	Use with 24" x 24" Catch Basin Series.	area 231.69 square inches. 708.77 GPM.				
-	(see page 75)					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
2413	24" x 24" Square Cast Iron Grate	Black	1	147.00	10ND	24" Square Heavy-Duty		
	Use with 24" x 24" Catch Basin Series. (see page 75)					Cast Iron Grate. Open surface area 197.00 square inches. 602.65 GPM. Structural Foam.		



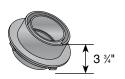
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
2415	24" x 24" Square Galvanized Steel Grate	Galvanized Steel	1	62.88	10ND	24" Square Heavy-Duty		
	Use with 24" x 24" Catch Basin Series. (see page 75)					Galvanized Steel Bar Grate. Open surface area 422.45 square inches. 1292.33 GPM. Structural Foam.		



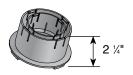
Part No.	Description		Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
2410	10" & 12" Universal Adapter	10"/12" Universal Adapter.				
	Includes #1890 (comes pre-inserted). Fits 10" and 1 Pipe; 12" Single Wall Corrugated Pipe (does not fit 1 3" to 8" adapters above (all except #1889) for use v 8" Corrugated Pipe; and 4" Sch. 40 Pipe (select con	0" Single Wall Corruga with 3", 4", 6" and 8" S	HDPE.			

Catch Basin Universal Outlets

Universal Outlets and Adapters allow you to quickly connect to 3"-12" drain pipes to accommodate the needs of any job. They offer greater flexibility during install saving time and money.



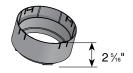
ı	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
	1242	3" & 4" Universal Outlet w/4" Spigot	Black	20	0.74	10ND	3" & 4" Universal Outlet.		
		Fits 3" & 4" Corrugated Pipe, 3" & 4" Sewer and Dr Allows for adjusting inlet height. Use with 9", 12", 1 Use with 24" Catch Basin also requires #2410 Adap	Styrene.						



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1243	3" & 4" Universal Locking Outlet*	Black	20	0.60	10ND	3" & 4" Patented Universal		
	Fits 3" & 4" Corrugated Pipe, 3" & 4" Sewer and Dr Use with 9", 12", 18" and 24" Catch Basin Series a Use with 24" Catch Basin also requires #2410 Adap "New Locking Outlet snaps on to most 3" and 4" co	Locking Outlet. Styrene.						



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
1245	3" & 4" Offset Universal Outlet	Black	20	0.50	10ND	3" & 4" Offset Universal			
	Outlet. Styrene.								



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
1266	6" Universal Locking Outlet*	Black	20	0.55	10ND	6" Universal Locking Outlet.	
	Fits 6" Sewer and Drain Pipe, 6" Corrugated Pipe. U. #1230 and #1830 Low-Profile Adapters. Use with 24	ind #930,	Styrene.				



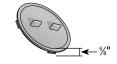
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
1888	8" Universal Outlet	Black	8	1.05	10ND	8" Universal Outlet.			
	Fits 8" Sewer and Drain Pipe, 8" Corrugated Pipe. Use with 18" and 24" Catch Basin Series. Use with 24" Catch Basin also requires #2410 Adapter.								



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1889	8" Offset Universal Adapter	Black	10	0.74	10ND	8" Offset Universal Adapter.		
	Styrene.							



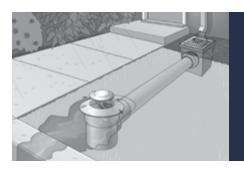
Part No.	Description	Color	Qty.	(lbs.)	Class	Specifications
2410	10"/12" Universal Adapter. HDPE.					
	Includes #1890 (comes pre-inserted). Fits 10" and 12" Sewer and Drain Pipe; 10" and 12" Dual Wall Corrugated Pipe; 12" Single Wall Corrugated Pipe (does not fit 10" Single Wall Corrugated Pipe). Reduces opening to fit most 3" to 8" adapters above (all except #1889) for use with 3", 4", 6" and 8" Sewer and Drain Pipe; 3", 4", 6" and 8" Corrugated Pipe; and 4" Sch. 40 Pipe (select corresponding adapter above). Use with 24" Catch Basin Series.					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1206	6" Universal Adapter Plug	Black	20	0.35	10ND	Universal Plug. Styrene.



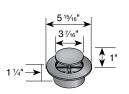
POP-UP DRAINAGE EMITTERS



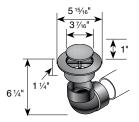
The Pop-up Drainage Emitter is an easy, safe and efficient solution that allows water to be diverted and released to water-safe areas away from structures, erosion-prone landscapes and poor drainage areas.

Pop-up Drainage Emitters allow water captured by grates, catch basins, channel drains, Flo-Well, EZflow, downspouts and roof gutter systems to flow through drainage pipe and away from structural foundations to safe or useful areas. For example, water can be routed from a low area next to a foundation to a water-safe area in the landscape, or a curbside drainage system where allowed. The emitter opens under minimal hydrostatic pressure from water through upstream drainage pipes; the emitter closes as flow diminishes. The special patented design allows the Emitter to open with even the smallest flows. Since the Emitter is closed during dry weather, debris and rodents cannot enter the drain pipes. Spring automatically retracts – closes and prevents damage from lawn mowers. It's flat profile blends discreetly into the surrounding landscapes.

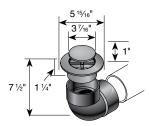
3" & 4" Pop-up Drainage Emitter



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
420	3" & 4" Pop-up Drainage Emitter	Green	20	0.28	10ND	3" and 4" polyolefin spring-loaded
	Fits 3" and 4" Sewer and Drain Fittings. Ideal for discharging excess water from stormwa Spring automatically retracts.	ter managem	ent system.			Pop-up Drainage Emitter with UV inhibitor. 40 GPM capacity. 0.04 psi or 1" of head to raise top.



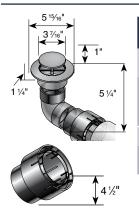
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
321	Emitter with 3" Elbow	Green	25	0.60	10ND	NDS #420 polyolefin spring-loaded
	Fits 3" Sewer and Drain Pipe.	Pop-up Drainage Emitter with UV inhibitor, 3" styrene 90 degree elbow with 1/4" drain hole. 40 GPM. 0.04 psi or 1" of head to raise top.				
	Ideal for discharging excess water from stormwa Spring automatically retracts.					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
421	Emitter with 4" Elbow	Green	20	0.85	10ND	NDS #420 polyolefin spring-loaded	
	Fits 4" Sewer and Drain Pipe. Ideal for discharging excess water from stormwa Spring automatically retracts.	ter managem	ent system.			Pop-up Drainage Emitter with UV inhibitor, 4" styrene 90 degree elbow with 1/4" drain hole. 40 GPM. 0.04 psi or 1" of head to raise top.	

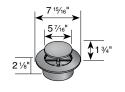
POP-UP DRAINAGE EMITTERS

3" & 4" Pop-up Drainage Emitter (continued)

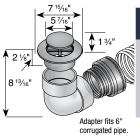


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
430	Pop-up Drainage Emitter with 3" Elbow and Universal Adapter	Green	20	1.00	10ND	NDS #420 polyolefin spring-loaded Pop-up Drainage Emitter with UV
	Universal Adapter fits 3" and 4" corrugated pipe, 4" Sch. 40 pipe, and 3" and 4" triple wall pipe. Ideal for discharging excess water from stormwate	inhibitor, 3" styrene 90 degree elbow with 1/4" drain hole and universal pipe adapter. 40 GPM. 0.04 psi or 1" of head to raise top.				
1241	3" & 4" Universal Adapter w/4" Spigot	3" & 4" Patented Universal Adapter.				
	Connects 3" & 4" Sewer and Drain Fittings with 3" & 4" Sewer and Drain Pipe, 4" Sch. 40 Pipe a	Styrene.				

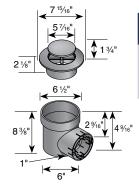
6" Pop-up Drainage Emitter



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
620	6" Pop-up Drainage Emitter	Green	15	0.61	10ND	6" polyolefin spring-loaded Pop-up		
	Can be used with Flo-Well to relieve overflow.				Drainage Emitter with UV inhibitor. 88 GPM capacity. 0.04 psi or 1" of head to raise top.			



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
624	6" Pop-up Emitter with Elbow and Corrugated Pipe Adapter	Green	10	3.45	10ND	NDS #620 polyolefin spring-loaded Pop-up Drainage Emitter with UV inhibitor, 6" styrene 90 degree elbow with 1/4" drain hole and corrugated pipe adapter. 88 GPM. 0.04 psi or 1" of head to raise top.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
625	6" Pop-up Emitter wih Spee-D® Basin	Green	8	2.21	10ND	NDS #620 polyolefin spring-loaded Pop-up Drainage Emitter with UV inhibitor and Spee-D basin. 88 GPM. 0.04 psi or 1" of head to raise top.



COMMOM DRAINAGE FITTINGS

90 Degree PVC Elbow



	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
PVC	3P02	3" PVC 90 Degree Elbow (HUB x HUB)	White	40	0.40	30PV
	4P02	4" PVC 90 Degree Elbow (HUB x HUB)	White	25	0.68	30PV
	6P02	6" PVC 90 Degree Elbow (HUB x HUB)	White	12	3.00	30PV

Corrugated Adapter



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
351	3" Polyethylene Corrugated Adapter (CORR HUB x S&D SPT or HUB)	Black	50	0.10	30ST
451	4" Polyethylene Corrugated Adapter (CORR HUB x S&D SPT or HUB)	Black	25	0.20	30ST
651	6" Polyethylene Corrugated Adapter (CORR HUB x S&D SPT or HUB)	Black	12	0.25	30ST

Corrugated Internal Couplings



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3C05	3" Corrugated Coupling	Black	60	0.07	30PE
4C07	4" Corrugated Coupling	Black	36	0.08	30PE
6C07	6" Corrugated Coupling	Black	12	0.08	30PE

Corrugate End Caps



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3C06	3" Corrugated Endcap	Black	33	0.05	30PE
4C06	4" Corrugated Endcap	Black	30	0.06	30PE
6006	6" Corrugated Endcap	Black	15	0.50	30PE

Note: See Fittings section (pages 158-176) for additional fitting options.



NDS offers a variety of grates in sizes, patterns, colors and design options to fit all products and enhance any landscape.

Brass & Chrome Grates





Strong - Practical - Functional

Our solid cast brass grates are secured to a PVC collar with solid brass screws for aesthetics and reliability. The PVC collar can be solvent welded into sewer and drain fittings or pipe where permanent, anti-theft installation is desired. The grate can still be removed for easy cleanout.

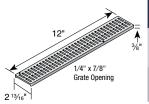
- A unique mix of beauty and function
- · Recommended for highly-visible entry areas in hotels, malls, office buildings, country clubs and estates
- Exceptional construction and fine finish also make these grates ideal for deck areas, walkways, swimming pools and spas

Materials & Standards

- Made with the highest-quality solid brass
- Brushed Satin and Polished Chrome finishes are protected by a clear plastic film that prevents damage to the finish during shipping and installation



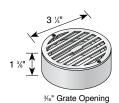
Brass & Chrome Grates



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
552B	1 ft. Brass Channel Grate	Satin Brass	12	1.21	25PF	1 foot Mini Channel Solid
553PB	1 ft. Brass Channel Grate	Polished Brass	12	1.21	25PF	Brass Grate with brass screws. Open surface area
*	Fits #500 and #550 Mini Channels. (see pages 50).	9.20 square inches per foot. 28.14 GPM per foot.				
$\mathbf{\Lambda}$	(see page 75). ADA Compliant/Heel-proof.					100t. 20.14 GFW per 100t.



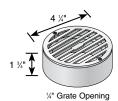
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications		
909B	3" Round Brass Grate w/PVC Collar	Satin Brass	20	0.40	15BR	3" Round Solid Brass Grate and brass screws with PVC collar. Open		
905PB	3" Round Brass Grate w/PVC Collar	Polished Brass	20	0.40	15BR			
*	Fits 2" SCH-40 Pipe and 3" Sewer and Drain Fittings.							
Λ	(see page 75). ADA Compliant/Heel-proof.	inches. 8.20 GPM.						



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications		
915SC	3" Round Chrome Grate w/PVC Collar	Satin Chrome	20	0.40	15BR	3" Round Solid Chrome		
907PC	3" Round Chrome Grate w/PVC Collar	Polished Chrome	20	0.40	15BR	Grate and screws with PVC collar. Open surface		
*	Fits 3" Sewer and Drain Fittings and 2" SCH-40 Pipe.							
\wedge	(see page 75). ADA Compliant/Heel-proof.		8.20 GPM.					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
910B 906PB	4" Round Brass Grate w/PVC Collar 4" Round Brass Grate w/PVC Collar	Satin Brass Polished Brass	20	0.64	15BR 15BR	4" Round Solid Brass Grate and brass screws with PVC collar. Open
术	Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fitting (see page 75). ADA Compliant/Heel-proof.	surface area 5.25 square inches. 16.06 GPM.				

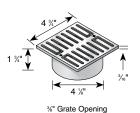


Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
4" Round Chrome Grate w/PVC Collar	Satin Chrome	20	0.66	15BR	4" Round Chrome Grate and screws with PVC
4" Round Chrome Grate w/PVC Collar	Polished Chrome	20	0.66	15BR	collar. Open surface area
Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fitting (see page 75). ADA Compliant/Heel-proof.	5.25 square inches. 16.06 GPM.				
	4" Round Chrome Grate w/PVC Collar 4" Round Chrome Grate w/PVC Collar Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fitting	4" Round Chrome Grate w/PVC Collar Satin Chrome 4" Round Chrome Grate w/PVC Collar Polished Chrome Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fittings.	Description Color Qty. 4" Round Chrome Grate w/PVC Collar Satin Chrome 20 4" Round Chrome Grate w/PVC Collar Polished Chrome 20 Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fittings. 20	Description Color Qty. lbs. 4" Round Chrome Grate w/PVC Collar Satin Chrome 20 0.66 4" Round Chrome Grate w/PVC Collar Polished Chrome 20 0.66 Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fittings.	Description Color Qty. lbs. Class 4" Round Chrome Grate w/PVC Collar Satin Chrome 20 0.66 15BR 4" Round Chrome Grate w/PVC Collar Polished Chrome 20 0.66 15BR Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fittings.

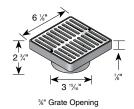


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
918B	6" Round Brass Grate w/Styrene Collar	Satin Brass	8	1.38	15BR	6" Round Solid Brass
919PB	6" Round Brass Grate w/Styrene Collar	Polished Brass	8	1.38	15BR	Grate and brass screws with styrene collar. Open
*	Fits Spee-D® Basin, 6" Sewer & Drain Fittings.					surface area 13.10 square inches, 40.07 GPM.
V	(see page 75). ADA Compliant.					IIIGIIGS. 40.07 UFW.

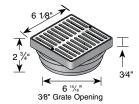
Brass & Chrome Grates (continued)



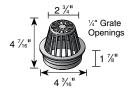
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications		
913B	5" Square Brass Grate w/PVC Collar	Satin Brass	10	1.21	15BR	5" Square Solid Brass Grate with brass screws		
914PB	5" Square Brass Grate w/PVC Collar	Polished Brass	10	1.21	15BR	and PVC collar. Open		
*	Fits 4" Sewer and Drain Fittings, 3" Sewer and Drain Pipe, and 3" Triple Wall Pipe.							
	(see page 75). ADA Compliant.					inches. 7.65 GPM.		



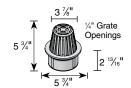
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
920B	6" Square Brass Grate w/Styrene Adapter	Satin Brass	8	1.65	15BR	6" Square Solid Brass
923PB	6" Square Brass Grate w/Styrene Adapter	Polished Brass	8	1.65	15BR	Grate with brass-colored styrene low-profile
大	Fits 3" or 4" Sewer and Drain Pipe or Fittings, 3" or (see page 75). ADA Compliant.	adapter and brass screws. Open surface area 11.60 square inches. 35.49 GPM.				



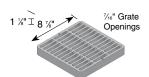
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications	
921B 922PB	6" Square Brass Grate w/Styrene Adapter 6" Square Brass Grate w/Styrene Adapter	Satin Brass Polished Brass	8	1.71 1.70	15BR 15BR	6" Square Solid Brass Grate with brass-colored styrene low-profile adapter	
Ķ							



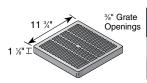
Part No.	Description	Color	J .	Wt. Ea. lbs.	Product Class	Specifications			
78B	4" Atrium Brass Grate	Brass	1	2.00	15BR	Open surface area 10.20 square inches. 31.20 GPM.			
	Fits 4" Sewer and Drain Pipe & Fittings.	r and Drain Pipe & Fittings.							



F	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
ć	90B	6" Atrium Brass Grate	Brass	1	5.30	15BR	Open surface area 22.50
		Fits 6" Sewer and Drain Pipe & Fittings.		square inches. 68.83 GPM.			



Part No.	Description			Wt. Ea. lbs.	Product Class	Specifications			
930B	9" Square Brass Grate	Brass	1	5.11	15BR	Open surface area 34.00			
	(see page 75). ADA Compliant.					square inches. 104.01 GPM. Includes SS Screws.			



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications	
1230B	12" Square Brass Grate	Brass	1	9.24	15BR	Open surface area 42.87	
	(see page 75). ADA Compliant.	square inches. 131.14 GPM. Includes SS Screws.					



Decorative Grates

Designed to meet today's demand for products that are as beautiful as they are functional. NDS decorative grates feature consumer-tested designs and offer a range of colors and materials ideal for any application or setting.

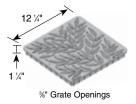




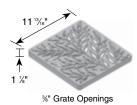
ce area 25.67 nes. 78.53 GPM. d rated.

Catch Basin Plastic & Metal Decorative Grates

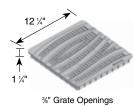
Fits 12" Catch Basins. Available in Botanical and Wave designs, in multiple colors or in cast iron. Plastic grates are "T-top" and overlap basin edge. Iron grates sit flush.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1218S	12" x 12" Square Botanical Grate	Sand	8	3.27	10ND	12" Square Structural
1218GR	12" x 12" Square Botanical Grate	Green	8	3.27	10ND	Foam Polyolefin Botanical
1218GY	12" x 12" Square Botanical Grate	Gray	8	3.27	10ND	Grate with UV inhibitor.
1218	12" x 12" Square Botanical Grate	Black	8	3.27	10ND	Open surface area 24.44 square inches. 74.77 GPM.
839	#6 x 1-3/4 FH Phillips Screw	Metal	40	n/a	10ND	Class B load rated.
	Use Screw # 839, FH#6 x 1-3/4". (see page 75). ADA Compliant.					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1218CI	12" x 12" Square Botanical Cast Iron Grate	Raw Iron	1	12.67	10ND	12" Square Cast Iron
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	Botanical Grate. Open
	Use Screw # 629, FH#20 x 1-1/2". (see page 75). ADA Compliant.					surface area 24.44 square inches. 74.77 GPM. Class B load rated.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1224S	12" x 12" Square Wave Grate	Sand	8	2.68	10ND	12" Square Structural
1224GR	12" x 12" Square Wave Grate	Green	8	2.68	10ND	Foam Polyolefin Wave
1224GY	12" x 12" Square Wave Grate	Gray	8	2.68	10ND	Grate with UV inhibitor. Open surface area 25.67
1224	12" x 12" Square Wave Grate	Black	8	2.68	10ND	square inches. 78.53 GP
839	#6 x 1-3/4 FH Phillips Screw	Metal	40	n/a	10ND	Class B load rated.
	Use Screw # 839, FH#6 x 1-3/4". (see page 75). ADA Compliant.					

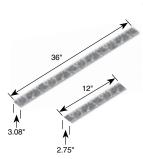
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Ĭ	STATISTICS OF THE PARTY OF THE	2
1 1/8"	Ida July Hall Con	
	%" Grate Openings	

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1224CI	12" x 12" Square Wave Cast Iron Grate	Raw Iron	1	13.90	10ND	12" Square Cast Iron Wave
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	Grate. Open surface area
	Use Screw # 629, FH#20 x 1-1/2". (see page 75). ADA Compliant.					25.60 square inches. 78.31 GPM. Class B load rated.

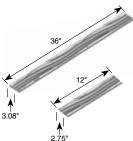
GRATES: STANDARD, DECORATIVE & METAL

Mini Channel Plastic & Metal Decorative Grates

Fits 500 Series Mini Channel. Available in Botanical and Wave designs, in multiple colors or in cast iron. Plastic grates are "T-top" and overlap basin edge. Iron grates sit flush.



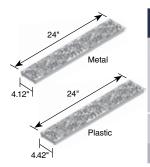
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
846	Stainless Steel Screws, FH #4 x 5/8"	Steel	64	0.10	25PF	3 ft. Structural Foam Polyolefin
554S	3' Botanical Channel Grate	Sand	16	0.89		botanical pattern Channel Grate with UV inhibitor. Open surface
554GR	3' Botanical Channel Grate	Green	16	0.89		area 5.44 square inches per
554GY	3' Botanical Channel Grate	Gray	16	0.89		foot. 16.64 GPM per foot.
554	3' Botanical Channel Grate	Black	16	0.89		1 ft. Mini Channel botanical
554CI	1' Botanical Cast Iron Channel Grate	Raw Iron	1	1.82		Cast Iron Channel Grate. Open
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	surface area 5.39 square inches per foot. 16.49 GPM per foot.
	(see page 75), ADA Compliant,					Class B load rated.



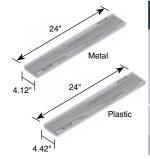
b	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
	846	Stainless Steel Screws, FH #4 x 5/8"	Steel	64	0.10	25PF	3 ft. Structural Foam Polyolefin
	555S	3' Wave Channel Grate	Sand	16	0.88	25PF	wave pattern Channel Grate with UV inhibitor. Open surface
	555GR	3' Wave Channel Grate	Green	16	0.88		area 5.73 square inches per
	555GY	3' Wave Channel Grate	Gray	16	0.88		foot. 17.54 GPM per foot.
	555	3' Wave Channel Grate	Black	16	0.88		1 ft. Mini Channel Wave Cast
	555CI	1' Wave Cast Iron Channel Grate	Raw Iron	1	1.30		Iron Channel Grate. Open
	629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	surface area 4.11 square inches per foot. 12.56 GPM per foot.
		(see page 75). ADA Compliant.					Class B load rated.

Spee-D® Channel Plastic & Metal Decorative Grates

Fits Spee-D® Channel. Available in Botanical and Wave designs, in multiple colors or in cast iron. Plastic grates are "T-top" and overlap basin edge. Iron grates sit flush.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
829	Stainless Steel Screws, FH #8 x 1"	Steel	48	0.06	25PF	2 ft. Structural Foam Polyolefin
252S	2' Channel Botanical Grate	Sand	24 ft.	1.74	25PF	decorative botanincal Channel
252GR	2' Channel Botanical Grate	Green	24 ft.	1.74	25PF	Grate with UV inhibitor. Open surface area 7.78 square inches per foot. 23.80 GPM per foot.
252GY	2' Channel Botanical Grate	Gray	24 ft.	1.74	25PF	
252	2' Channel Botanical Grate	Black	24 ft.	1.74	25PF	2 ft. Cast Iron decorative
252CI	2' Cast Iron Channel Botanical Grate	Raw Iron	1 ft.	7.06	25PF	botanincal Channel Grate. Open
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	surface area 8.99 square inches per foot. 27.50 GPM per foot.
	(see page 75). ADA Compliant.					Class B load rated.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
829	Stainless Steel Screws, FH #8 x 1"	Steel	48	0.06	25PF	2 ft. Structural Foam Polyolefin
253S	2' Channel Wave Grate	Sand	24 ft.	1.84	25PF	decorative wave Channel Grate
253GR	2' Channel Wave Grate	Green	24 ft.	1.84	25PF	with UV inhibitor. Open surface area 7.78 square inches per foot. 23.80 GPM per foot.
253GY	2' Channel Wave Grate	Gray	24 ft.	1.84	25PF	
253	2' Channel Wave Grate	Black	24 ft.	1.84	25PF	2 ft. Cast Iron decorative wave
253Cl	2' Cast Iron Channel Wave Grate	Raw Iron	2 ft.	7.52	25PF	Channel Grate. Open surface
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	area 7.41 square inches per foot. 22.67 GPM per foot. Class
	(see page 75). ADA Compliant.					B load rated.



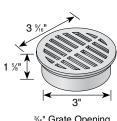
Dura Slope Metal Decorative Grates

Fits all Dura Slope channels. Available in five designs: Weave, Tile, Brick, Diamond and Slot. Ductile iron material, rated Class D and ADA compliant.



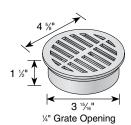
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
DS-601	Weave Pattern	Raw Iron	1	14.50	25DS	Decorative grates are made of ductile iron.
DS-602	Diamond Pattern	Raw Iron	1	14.30	25DS	Weave: open area 6.75 square inches per foot;
DS-603	Tile Pattern	Raw Iron	1	14.70	25DS	20.65 GPM. Diamond: open area 9.55 square
DS-604	Brick Pattern	Raw Iron	1	14.30	25DS	inches per foot; 29.21 GPM. Tile: open area
DS-609	Deco Slot	Raw Iron	1	14.50	25DS	7.95 square inches per foot; 24.32 GPM. Brick :
	Use with Dura Slope Drains (page 51), Dura Slope	Catch Basins (page 5	3).			open area 11.35 square
	Decorative grates are made of ductile iron. Uncoat Additional powder-coat colors available: Black (K), Orange (O), Gray (Y), Brown (N)	inches per foot; 34.725 GPM. Deco slot: open area 16.75 square inches per				
	MTO 6-7 week lead time.	foot; 51.24 GPM.				
	(see page 75). ADA Compliant/Heelproof. Must be us					

Round Grates



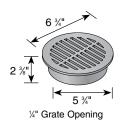
		O
16"	Grate	Opening

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
14	3" Round Grate	Black	40	0.13	10ND	3" Round Structural Foam
15	3" Round Grate	Gray	40	0.13	10ND	Polyolefin Grate with UV
16	3" Round Grate	Green	40	0.13	10ND	inhibitor. Open surface area 2.60 square inches.
16P	3" Round Grate	Purple	40	0.13	10ND	7.95 GPM.
16S	3" Round Grate	Sand	40	0.13	10ND	
大	Fits 3" Sewer and Drain Pipe & Fittings, 3" Corrugal (see page 75). ADA Compliant/Heel-proof.	ted Pipe, and 3" Triple 1	Wall Pipe.			



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Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications		
11	4" Round Grate	Black	25	0.17	10ND	4" Round Structural Foam		
12	4" Round Grate	Gray	25	0.17	10ND	Polyolefin Grate with UV		
13	4" Round Grate	Green	25	0.17	10ND	inhibitor. Open surface area 3.85 square inches.		
13P	4" Round Grate	Purple	25	0.17	10ND	11.78 GPM.		
13S	4" Round Grate	Sand	25	0.17	10ND			
大	Fits 4" Sewer and Drain Pipe & Fittings, 4" Corrugat							



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
40	6" Round Grate	Black	10	0.49	10ND	6" Round Structural Foam
50	6" Round Grate	Green	10	0.49	10ND	Polyolefin Grate with UV
60	6" Round Grate	Gray	10	0.49	10ND	inhibitor. Open surface area 9.10 square inches.
60S	6" Round Grate	Sand	10	0.49	10ND	27.84 GPM.
	Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fi (see page 75). ADA Compliant/Heel-proof.	ttings and 6" Corru	gated Pipe.			

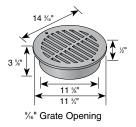
Round Grates



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
10	8" Round Grate	Black	10	0.60	10ND	8" Round Structural Foam
20	8" Round Grate	Green	10	0.60	10ND	Polyolefin Grate with UV inhibitor. Open surface
30	8" Round Grate	Gray	10	0.60	10ND	area 11.50 square inches.
30S	8" Round Grate	Sand	10	0.60	10ND	35.18 GPM.
· ·	Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fitti					
\wedge	(see page 75). ADA Compliant.					



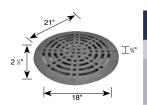
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
1040	10" Round Grate	Black	10	1.01	10ND	10" Round Structural
1050	10" Round Grate	Green	10	1.01	10ND	Foam Polyolefin Grate with UV inhibitor. Open surface
1060	10" Round Grate	Gray	10	1.01	10ND	area 21.57 square inches.
1060S	10" Round Grate	Sand	10	1.01	10ND	65.99 GPM.
术	Fits 8" Sewer and Drain Pipe & Fittings, 8" Co (see page 75). ADA Compliant.	rrugated Pipe.				



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications	
1240	12" Round Grate	Black	6	2.44	10ND	12" Round Structural	
1250	12" Round Grate	Green	6	2.44	10ND	Foam Polyolefin Grate with UV inhibitor. Open surface	
1260	12" Round Grate	Gray	6	2.44	10ND	area 46.00 square inches.	
	Fits 12" Sewer and Drain Pipe, 12" Corrugated Pipe.						
	(see page 75)						



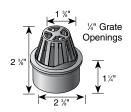
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
1511	15" Round Grate	Black	6	6.89	10ND	15" Round Structural
1512	15" Round Grate	Green	6	6.89	10ND	Foam Polyolefin Grate with UV inhibitor. Open surface
	Fits 15" Sewer and Drain Fittings, 15" Corrugated P	area 85.60 square inches. 261.86 GPM.				
	(see page 75)					LOTIOO OF INI



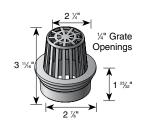
Part No.	Description		Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
1801SDG	18" Round Grate	Green	1	7.50	28ND	Round Polypropylene
	Fits 18" Sewer and Drain Fittings, 18" Corrugated P (see page 75)	ipe, includes Lag Bolts.				Grate. Open surface area 75.55 square inches. 231.12 GPM. Includes lag bolts.



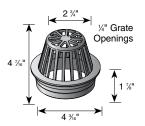
Atrium Grates



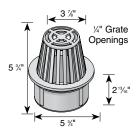
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications	
270	2" Atrium Grate	Gray	20	0.10	10ND	Flat-Top PVC Atrium Grate	
	Fits 2" Schedule 40 Fittings.					with UV inhibitor. Open surface area 4.00 square inches. 12.24 GPM.	



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
70	3" Atrium Grate	Green	20	0.16	10ND	Flat-Top Structural Foam
72	3" Atrium Grate	Gray	20	0.16	10ND	Polyolefin Atrium Grate with UV inhibitor. Open
74	3" Atrium Grate	Black	20	0.16	10ND	surface area 9.40 square
74S	3" Atrium Grate	Sand	20	0.16	10ND	inches. 28.76 GPM.
	Fits 3" Sewer and Drain Pipe & Fittings, 3" Corrugat					

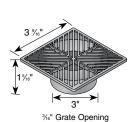


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
75	4" Atrium Grate	Green	20	0.21	10ND	Flat-Top Structural Foam
76	4" Atrium Grate	Gray	20	0.21	10ND	Polyolefin Atrium Grate with UV inhibitor. Open
78	4" Atrium Grate	Black	20	0.21	10ND	surface area 17.00 square
78S	4" Atrium Grate	Sand	20	0.21	10ND	inches. 52.01 GPM.
	Fits 4" Sewer and Drain Pipe & Fittings, 4" Corrugat					

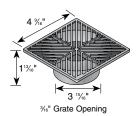


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
80	6" Atrium Grate	Green	10	0.62	10ND	Flat-Top Structural Foam
81	6" Atrium Grate	Gray	10	0.62	10ND	Polyolefin Atrium Grate with UV inhibitor. Open
90	6" Atrium Grate	Black	10	0.62	10ND	surface area 28.40 square
90S	6" Atrium Grate	Sand	10	0.62	10ND	inches. 86.88 GPM.
	Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fitting	ngs, 6" Corrugated Pipe	Э.			

Square Grates



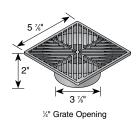
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications	
1	4" Square Grate	Green	40	0.11	10ND	4" Square Structural Foam	
2	4" Square Grate	Black	40	0.11	10ND	Polyolefin Grate with diagonally converging	
3	4" Square Grate	Gray	40	0.11	10ND	pattern with UV inhibitor. Open surface area 3.45	
İ	Fits 3" Sewer and Drain Pipe & Fittings, 3" Corrugated Pipe, and 3" Triple Wall Pipe.						
\wedge	(see page 75). ADA Compliant/Heel-proof.						



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
7	5" Square Grate	Green	25	0.20	10ND	5" Square Structural Foam
8	5" Square Grate	Black	25	0.20	10ND	Polyolefin Grate with diagonally converging
9	5" Square Grate	Gray	25	0.20	10ND	pattern with UV inhibitor.
į,	Open surface area 4.25 square inches. 13.00 GPM.					
(see page 75). ADA Compliant/Heel-proof.						

Wt. Ea.

Product



Part No.

Description

(see page 75). ADA Compliant/Heel-proof.

4	6" Square Grate	Black	10	0.40	10ND	6" Squa	
5	6" Square Grate	Green	10	0.40	10ND	Polyolef diagona	
6	6" Square Grate	Gray	10	0.40	10ND	pattern	
06S	6" Square Grate	Sand	10	0.40	10ND	Open su square i	
å	Fits 3" or 4" Sewer and Drain Pipe, 3" or 4" Corrugated Pipe, and 3" or 4" Triple Wall Pipe.						

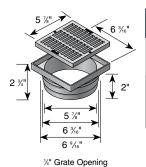
are Structural Foam efin Grate with ally converging with UV inhibitor. surface area 10.40 inches. 31.81 GPM.

Specifications



1/4" Grate Opening

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
640	6" x 6" x 4" Square Grate & Adapter	Black	8	0.83	10ND	6"x6" Low-Profile Adapter
641	6" x 6" x 4" Square Grate & Adapter	Green	8	0.83	10ND	and Structural Foam Polyolefin Removable
642	6" x 6" x 4" Square Grate & Adapter	Gray	8	0.83	10ND	Grate with UV inhibitor and
广	Fits 3" or 4" Sewer and Drain Pipe & Fittings, 3" or (see page 75). ADA Compliant/Heel-proof.	stainless steel screws. Open surface area 14.44 square inches. 44.17 GPM.				

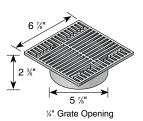


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications			
637	6" x 6" x 6" Square Grate & Adapter	Black	8	0.88	10ND	6"x6" Low-Profile Adapter			
639	6" x 6" x 6" Square Grate & Adapter	Gray	8	0.88	10ND	and Structural Foam Polyolefin Removable			
*	Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fittii (see page 75). ADA Compliant/Heel-proof.	ngs.				Grate with UV inhibitor and stainless steel screws. Open surface area 14.44 square inches. 44.17 GPM.			

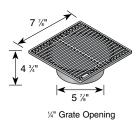


GRATES: STANDARD, DECORATIVE & METAL / SPEE-D® BASINS

Square Grates (continued)



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
771	7" Square Grate	Black	10	0.65	10ND	7" Square Structural Foam
772	7" Square Grate	Green	10	0.65	10ND	Polyolefin Grate with UV inhibitor. Open surface
773	7" Square Grate	Gray	10	0.65	10ND	area 13.60 square inches.
773S	7" Square Grate	Sand	10	0.65	10ND	41.60 GPM.
大	Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fitti (see page 75). ADA Compliant/Heel-proof.					



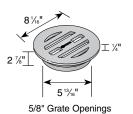
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
881	8" Square Grate	Black	10	0.79	10ND	8" Square Structural Foam
882	8" Square Grate	Green	10	0.79	10ND	Polyolefin Grate with UV inhibitor. Open surface
883	8" Square Grate	Gray	10	0.79	10ND	area 17.16 square inches.
883S	8" Square Grate	Sand	10	0.79	10ND	52.49 GPM.
广	Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fitti (see page 75). ADA Compliant/Heel-proof.					



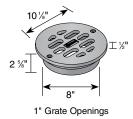
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. Ibs.	Product Class	Specifications
950	9" Square Grate	Green	10	1.11	10ND	9" Square Structural Foam
960	9" Square Grate	Gray	10	1.11	10ND	Polyolefin Grate with UV inhibitor. Open surface
970	9" Square Grate	Black	10	1.11	10ND	area 28.40 square inches.
970S	9" Square Grate	Sand	10	1.11	10ND	86.88 GPM.
*	Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fitti					
*	(see page 75). ADA Compliant.					

GRATES: STANDARD, DECORATIVE & METAL

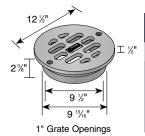
Duracast™ In-Line Grates



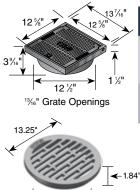
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
D6	6" Round Grate	Black	1	7.30	10ND	6" Round Heavy-Duty Ductile Grate with Black		
	Fits 6" Corrugated and Sewer and Drain Pipe. D6 is not a custom grate and qualifies for normal Ni Fits SPEE-D® Basin.	ot a custom grate and qualifies for normal NDS freight terms.						
	(see page 75)							



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
D8	8" Round Grate	Black	1	14.59	10ND	8" Round Heavy-Duty		
	Fits 8" Corrugated and Sewer and Drain Pipe. D8 is not a custom grate and qualifies for normal Ni (see page 75)	DS freight terms.				Ductile Iron Grate with Black Paint. Open surface area 13.98 square inches. 42.77 GPM. Bolt holes for added security. H-20 load rating.		



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
D10	10" Round Grate	Black	1	20.60	10ND	10" Round Heavy-Duty		
	Fits 10" Corrugated and Sewer and Drain Pipe. D10 is not a custom grate and qualifies for normal I (see page 75)	NDS freight terms.				Ductile Iron Grate with Black Paint. Open surface area 26.82 square inches. 82.05 GPM. Bolt holes for added security. H-20 load rating.		



1" Grate Openings

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
D12H-W0	12" Square Hinged Cast Iron Grate without Adapter	Black	1	48.00	10ND	H-20 load rating. Open surface area 48.30 square			
D12	12" Round Grate	Black	1	16.00	10ND	inches. 147.76 GPM.			
	Fits 12" Corrugated and Sewer and Drain Pipe. (see page 75)					H-20 load rating. Open surface area 55.16 square inches. 169.74 GPM.			



CHANNEL AND TRENCH DRAINS

Channel & Trench Drains Product Line-up

NDS Channel and Trench Drain Systems provide durable and proven solutions for sheet-flow drainage in applications ranging from light foot traffic to heavy vehicular traffic.



Micro Channel™ Pools, Spas, Patios



Mini Channel™ Pools, Patios, Tennis Courts



Spee-D® Channel Pools, Pool Decks, Driveways



Pro Series Channel™ Patios, Driveways, Sports Fields



Dura Slope™Driveways, Parking Lots,
Courtyards



FILCOTEN® by NDS® Fiber-reinforced Concrete

Durable

Designed for maximum durability, drainage, and performance NDS Channel and Trench Drains are a proven alternative to traditional concrete drains. UV inhibitors in the plastic grate, channel and component parts prevent fading and cracking from the sun. All plastic grate and channel components are **chemically resistant, rustproof, and maintenance-free.**

Simple

NDS Channel and Trench Drains are light weight and easy to install. Grates are removable for easy clean out and replacement. Grates may be held in place with screws or hold-down clips. A complete line of accessories is available for each Channel and Trench Drain System. Our "Profile Series" of channel drains connect like PVC pipe. Our "Modular Pro Series" Injection Molded Channel has mechanical interlocking joints. Our "Dura Slope" Trench Drain System is injection-molded, modular, has mechanical interlocking joints and a built-in slope. All NDS Channel and Trench Drain Systems easily connect to sewer and drain pipes and fittings or Sch. 40 pipes and fittings.

Versatile

To blend with surrounding surfaces, our plastic Channel Grates are available in six colors, some with decoartive options, as well as solid brass for the Mini Channel. Cast iron and rolled steel grates are available for the Dura Slope and Pro Series Channel. A ductile iron frame is also available. NDS Channel and Trench Drains also offer a choice of outletting locations; bottom, end and side options available.

Efficient

Channel and Trench Drains eliminate the need for grading a deck surface to a low area. Instead, the deck is gradually sloped in one direction or plane, and the channel drain acts as a perimeter drain at the edge of the slope to receive sheet-flow runoff. Channel and Trench Drain Systems provide more overall open surface area than conventional area grates.

Recommended Applications

- Driveways
- Tennis Courts
- Parking Lots
- Sidewalks

- Warehouses
- Patios
- Swimming Pools & Spas
- Sports Facilities
- Washdown Areas
- Nurseries & Greenhouses
- Running Tracks
- Manufacturing Facilites
- Loading Docks
- Plazas
- Courtyards
- Landings

See capacity recommendations for channel & trench drains, page 75.

DURA SLOPETM TRENCH DRAIN - PRE-SLOPED (PATENTED)



NDS Dura Slope™ is a high-quality quality, dependable, best-in-class trench drain system ideal for a variety of drainage solutions, including driveways, parking areas, warehouses, loading docks, pools, wash down areas and other areas for the interception and collection of surface runoff. Dura Slope™ pre-sloped and neutral trench drain system provides a solution for residential, commercial, industrial and municipal drainage needs.

The NDS Dura Slope™ trench drain system consists of 33 channel sections; 24 pre-sloped sections with 0.7% built in slope and 9 neutral sections. The system also has a catch basin assembly. All Dura Slope™ channel sections are 48" long, grip #3 and #4 rebar and support 6" wide grates. Dura Slope™ channel sections are also available in depths from 4" to 12".

The sloped channel sections enable the Dura Slope™ system to extend to a length of 96 feet with continuous slope. The neutral channel sections can be used for non-sloped system runs or can be used in conjunction with the pre-sloped channel sections for an extended system run of 132 feet. By incorporating central collection using the catch basin assembly, the Dura Slope™ trench drain system can be extended up to 266 feet. The ProFit™ locking system maintains structural integrity during installation, and is a locking device and support for the grates. Each channel section ships with ProFit™, Blank Grate Inserts and grate screws installed.

Details

- Lightweight 4 ft. modular sections
- Easier handling and installation
- Lower freight costs
- 2" radius bottom minimizes debris build-up
- Polyethylene material
- Durable and inexpensive
- Less breakage versus concrete

- High chemical resistance
- Bottom outlet on each channel section
- System versatility
- Requires fewer accessories
- 0.7% built-in slope
- Maintains optimum flow rates throughout system



DURA SLOPETM TRENCH DRAIN - PRE-SLOPED (PATENTED)

Product Features & Benefits



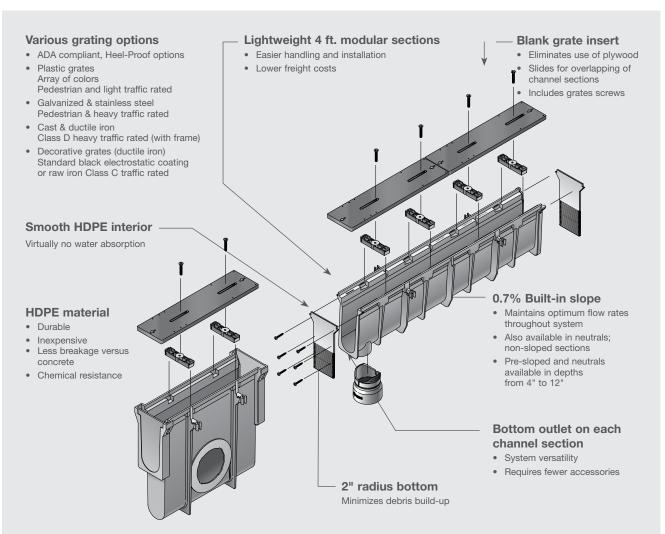
Interlocking tongue and groove joints

- Secures alignment
- Ensures straight channel runs
- Easy assembly and installation



DuraLoc™ integral joint lock

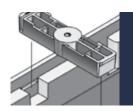
- Prevents joint movement during installation
- · No extra clamps or screws needed





LeveLoc™ re-bar supports with integral protruding knob

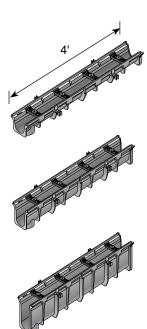
- Levels channel and grips re-bar
- Requires fewer accessories



ProFit™ locking system

- Locks grate to integral frame
- Supports product in shipping and installation (included)

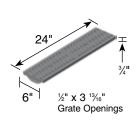
Dura Slope™ Channel Drain Sections



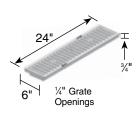
DS-090N 3.99" Deep Neutral Dura Slope Cha DS-091 3.99" to 4.34" Deep Dura Slope Cha DS-091N 4.34" Deep Neutral Dura Slope Cha DS-092 4.34" to 4.67" Deep Dura Slope Ch	annel Ligh	ht Gray 1 ht Gray 1 ht Gray 1 ht Gray 1	1	7.45 7.52 7.81	25DS 25DS
DS-091N 4.34" Deep Neutral Dura Slope Cha DS-092 4.34" to 4.67" Deep Dura Slope Ch	nnel Ligh	ht Gray			25DS
DS-092 4.34" to 4.67" Deep Dura Slope Ch	annel Ligh		1	7.81	
		ht Gray			25DS
	annel Ligh		1	7.92	25DS
DS-093 4.67" to 5.00" Deep Dura Slope Ch		ht Gray	1	8.27	25DS
DS-094 5.00" to 5.34" Deep Dura Slope Ch	annel Ligh	ht Gray	1	8.64	25DS
DS-094N 5.34" Deep Dura Slope Channel	Ligh	ht Gray	1	8.93	25DS
DS-095 5.34" to 5.68" Deep Dura Slope Ch	annel Ligh	ht Gray	1	8.99	25DS
DS-096 5.68" to 6.01" Deep Dura Slope Ch	annel Ligh	ht Gray	1	9.36	25DS
DS-097 6.01" to 6.35" Deep Dura Slope Ch	annel Ligh	ht Gray	1	9.74	25DS
DS-097N 6.35" Deep Neutral Dura Slope Cha	nnel Ligh	ht Gray	1	10.04	25DS
DS-098 6.35" to 6.69" Deep Dura Slope Ch	annel Ligh	ht Gray	1	10.11	25DS
DS-099 6.69" to 7.02" Deep Dura Slope Ch	annel Ligh	ht Gray	1	10.48	25DS
DS-100 7.02" to 7.36" Deep Dura Slope Ch	annel Ligh	ht Gray	1	10.86	25DS
DS-100N 7.36" Deep Neutral Dura Slope Cha	nnel Ligh	ht Gray	1	11.16	25DS
DS-101 7.36" to 7.69" Deep Dura Slope Ch	annel Ligh	ht Gray	1	11.23	25DS
DS-102 7.69" to 8.03" Deep Dura Slope Ch	annel Ligh	ht Gray	1	11.60	25DS
DS-103 8.03" to 8.37" Deep Dura Slope Ch	annel Ligh	ht Gray	1	11.98	25DS
DS-103N 8.37" Deep Neutral Dura Slope Cha	nnel Ligh	ht Gray	1	12.27	25DS
DS-104 8.37" to 8.70" Deep Dura Slope Ch	annel Ligh	ht Gray	1	12.34	25DS
DS-105 8.70" to 9.04" Deep Dura Slope Ch	annel Ligh	ht Gray	1	12.71	25DS
DS-106 9.04" to 9.37" Deep Dura Slope Ch	annel Ligh	ht Gray	1	13.07	25DS
DS-106N 9.37" Deep Neutral Dura Slope Cha	nnel Ligh	ht Gray	1	13.39	25DS
DS-107 9.37" to 9.70" Deep Dura Slope Ch	annel Ligh	ht Gray	1	13.40	25DS
DS-108 9.70" to 10.05" Deep Dura Slope C	hannel Ligh	ht Gray	1	13.83	25DS
DS-109 10.05" to 10.38" Deep Dura Slope	Channel Ligh	ht Gray	1	14.20	25DS
DS-109N 10.38" Deep Neutral Dura Slope Ch	annel Ligh	ht Gray	1	14.50	25DS
DS-110 10.38" to 10.71" Deep Dura Slope	Channel Ligh	ht Gray	1	14.57	25DS
DS-111 10.71" to 11.05" Deep Dura Slope	Channel Ligh	ht Gray	1	14.95	25DS
DS-112 11.05" to 11.39" Deep Dura Slope	Channel Ligh	ht Gray	1	15.32	25DS
DS-112N 11.39" Deep Neutral Dura Slope Ch	annel Ligh	ht Gray	1	15.60	25DS
DS-113 11.39" to 11.72" Deep Dura Slope	Channel Ligh	ht Gray	1	15.69	25DS
DS-114 11.72" to 12.06" Deep Dura Slope	Channel Ligh	ht Gray	1	16.06	25DS



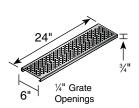
Standard Grates



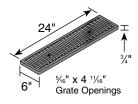
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
660	2 ft. Channel Grate	White	24 ft.	2.82	25DS	2 ft. Structural Foam
661	2 ft. Channel Grate	Dark Gray	24 ft.	2.82	25DS	Polyolefin, secured Channel Grate with UV inhibitor. Open surface area 25.40 square inches per foot. 77.70 GPM per foot.
661LG	2 ft. Channel Grate	Light Gray	24 ft.	2.82	25DS	
662	2 ft. Channel Grate	Green	24 ft.	2.82	25DS	
663	2 ft. Channel Grate	Black	24 ft.	2.82	25DS	
664	2 ft. Channel Grate	Sand	24 ft.	2.82	25DS	
665	2 ft. Channel Grate	Brick Red	24 ft.	2.82	25DS	
	Use with Dura Slope Drains (page 51), Dura Slope C					
	(see page 75). ADA Compliant.					



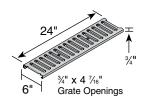
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
DS-670	2 ft. Plastic Perforated Channel Grate	Light Gray	24 ft.	2.81	25DS	2 ft. Structural Foam		
DS-671	2 ft. Plastic Perforated Channel Grate	White	24 ft.	2.81	25DS	Polyolefin, secured Channel Grate with UV		
~	Use with Dura Slope Drains (page 51), Dura Slope C (see page 75). ADA Compliant/Heelproof.	atch Basins (page 53).				inhibitor, light traffic rated, heelproof, ADA compliant. Open surface area 8.75 square inches per foot. 26.77 GPM per foot.		



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
DS-226	2 ft. Stainless Steel Perforated Channel Grate	Steel	24 ft.	3.16	25DS	Perforated Metal Grate,			
DS-228	2 ft. Galvanized Steel Perforated Channel Grate	Steel	24 ft.	3.83	25DS	pedestrian traffic rated, heelproof, ADA compliant. Open surface area 7.63 square inches per foot. 23.34 GPM per foot.			
†	Use with Dura Slope Drains (page 51), Dura Slope C (see page 75). ADA Compliant/Heelproof.	atch Basins (page 53).							



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
DS-231 DS-232	2 ft. Cast Iron Channel Grate 2 ft. Ductile Iron	Black Black	1	18.90 15.20	25DS 25DS	2 ft. heavy-duty Iron Channel Grate. Open surface area 20.85	
	Use with Dura Slope Drains (page 51), Dura Slope C (see page 75). ADA Compliant. Must be used with DS-		D Load Ratin	g.		surface area 20.85 square inches per foot. 63.78 GPM per foot. H-20 load rating.	



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
DS-221	2 ft. Galvanized Steel Channel Grate	Steel	24 ft.	6.64	25DS	2 ft. Galvanized Rolled		
	Use with Dura Slope Drains (page 51), Dura Slope Catch Basins (page 53). Includes bracket to attach grate to channel and screws. (see page 75)					Steel Grate. Open surface area 23.09 square inches per foot. 70.64 GPM per foot.		

Slot Top

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
DS-ST1000	4 ft. Slot Top with Galvanized Steel Grate	Galvanized Steel	1	17.53	25DS	
DS-ST500	2 ft. Slot Top with Galvanized Steel Grate	Galvanized Steel	1	8.86	25DS	
DS-STMAINT	2 ft. Slot Top Maintenance Unit		1	14.86	25DS	

Decorative Grates



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
DS-601	Weave Pattern	Raw Iron	1	14.50	25DS	Decorative grates are		
DS-602	Diamond Pattern	Raw Iron	1	14.30	25DS	made of ductile iron. Weave: open area 6.75 square inches per foot; 20.65 GPM. Diamond: open area 9.55 square		
DS-603	Tile Pattern	Raw Iron	1	14.70	25DS			
DS-604	Brick Pattern	Raw Iron	1	14.30	25DS			
DS-609	Deco Slot	Raw Iron	1	14.50	25DS	inches per foot; 29.21		
	Use with Dura Slope Drains (page 51), Dura Slope (Catch Basins (see below	v).			GPM. Tile: open area 7.95 square inches per		
	foot; 24.32 GPM. Brick: open area 11.35 square inches per foot; 34.725 GPM. Deco slot: open area 16.75 square inches per							
	MTO 6-7 week lead time. (see page 75). ADA Compliant/Heel-proof. Must be used with DS-200H to achieve Class D Load Rating.							

In-Line Catch Basin

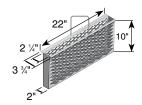
The NDS Dura Slope™ in-line catch basin is designed to fit all depth ranges of the Dura Slope™ trench drain sections. Catch basin inlets are designed to be sized as required to accept the Dura Slope™ trench drain section. The Dura Slope™ catch basin is 2 feet long and 2 feet deep with an outlet on both sides of the basin. One Universal Adapter Plug, one blank grate insert and two grate screws are included with each Dura Slope™ in-line catch basin. The NDS universal basin outlets are used to adapt the catch basin to 3", 4", 6" and 8" pipe.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
DS-340	Dura Slope™ In-Line Catch Basins	Light Gray	1	12.00	25DS
	Available for use of one or two outlets. Use #1242, #1243, #1245, #1266, #1206 or #1888 Universal Outlets (see page 33).				

Trash Bucket

Dura Slope™ Trash Bucket is made to fit inside the Dura Slope™ Catch Basin (part number DS-340). It has a handle for easy removal to clean leaves and debris; it requires removal of the grate. Made of zinc plated steel, it is durable to climatic conditions. The Trash Bucket is not intended for use with any of the Dura Slope™ Channels. Note: DS-240 Trash Bucket is not for use with the DS-200H Ductile Iron Frame.



Part No.	Description	Color	Pkg. Qty.		Product Class
DS-240	Dura Slope™ Trash Bucket	Steel Zinc-Plated Steel	1	5.00	25DS



Accessories

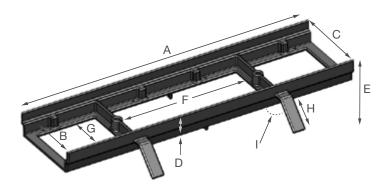


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class			
DS-122	ProFit™ Grate Lock	Black	8	0.80	25DS			
DS-123	Dura Slope Frame & End Cap Screws PH. #6	Steel	12		25DS			
	Use on DS-229 Universal End Cap & DS-227 x 3/4". Universal End Outlet downstream for (male) end. Use to attach DS-2	200 DI Frame to Ch	annel.					
DS-224	Universal End Cap	Gray	8	0.63	25DS			
	Replaces DS-124, which will not work with DS-113 or deeper channels. Slides into upstream (female) end. Requires DS-123 screws on downstream (male) end.							
DS-227	Universal End Outlet	Gray	6	0.75	25DS			
	Replaces DS-127, which will not work with DS-113 or deeper chant Requires DS-123 screws for use on downstream (male) end. Fits to							
DS-126	Bottom Outlet Adapter	Gray	6	0.53	25DS			
	Fits to 4" S&D Pipe. DS-126 not required for Sch. 40 connection.							
629	Grate Screws FH # 1/4 – 20 x 1-1/2"	Steel	40	0.70	25PF			
	Use with Grate # DS-231, DS-232, DS-670, DS-226 and 660-665. Use to secure grates in applications without DS-200 DI Frame							
DS-650	Flat Drilled Spanner End Cap Screws #6, 3/4"	Steel	12	1	25DS			
	Drill bit included with each package.							

Ductile Iron Frame

Dura Slope Ductile Iron Frame provides a Class D load rating of 326-575 psi and is suitable for heavy-duty hard tire equipment at speeds less than 20 mph. The DS-200H Ductile Iron Frame is recommended for use with pneumatic tire traffic such as fork lifts. The ductile iron frame can be used with the cast and ductile iron grates. *Note: DS-123 screws must be ordered to secure frame to the channel.*

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
DS-200H	Dura Slope™ Ductile Iron Frame	Black	2 ft.	7.50	25DS
	Use with Dura Slope Drains (page 51), Dura Slope Catch Basins (page 53). To be used with DS-231 or DS-232 grates. New Feature: 1/4" Brass Nuts to secure channel inserted.				
-0-0-	(see page 75). ADA Compliant/Heel-proof when used with DS-231 or DS-232 grates.				

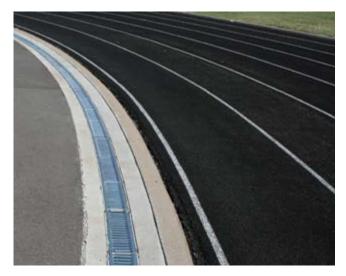


Dimension Key						
А	Length	24"				
В	Inner Width	6"				
С	Outer Width	6-3/8"				
D	Added Profile	1" Height				
Е	Total Height	2-3/4"				
F	Opening Length	10-3/4"				
G	Opening Width	4-1/2"				
Н	Length of Anchor	2-5/8"				
1	Angle of Anchor	30°				

EZ-Track™ Radius Coupling & Grates

Patent Pending

Designed specifically for draining 400-meter running tracks, Dura Slope™ Radius Couplings allow 3 degrees of deflection between trench drain sections, making an adjustable radius easily achievable for standard tracks and other curving applications.

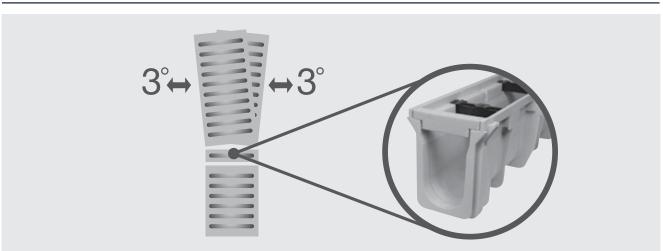




Details

- 80'-120' radius
- Heavy-duty HDPE trench drain
- No Special tools required components snap into place
- Four depths available
- Grate options: standard & slotted
- Flexible radius coupling (patent pending)

Flexible Radius Coupling





EZ-Track™ Radius Coupling & Grates



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
DSRC-097	6.35" Deep Neutral Dura Slope™ Radius Coupling	Light Gray	6	0.81	25DS	3 degree max. deflection
DSRC-100	7.36" Deep Neutral Dura Slope™ Radius Coupling	Light Gray	6	0.82	25DS	per coupling. Minimum inside radius of 26".
DSRC-103	8.37" Deep Neutral Dura Slope™ Radius Coupling	Light Gray	6	0.83	25DS	
DSRC-106	9.37" Deep Neutral Dura Slope™ Radius Coupling	Light Gray	6	0.84	25DS	



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
DS-660MG	1.25" Plastic Slotted Radius Coupling Grate	White	6	0.15	25DS	Structural Foam Polyolefin
DS-661MG	1.25" Plastic Slotted Radius Coupling Grate	Dark Gray	6	0.15	25DS	Radius Coupling Channel Grate with UV inhibitor.
DS-661LGMG	1.25" Plastic Slotted Radius Coupling Grate	Light Gray	6	0.15	25DS	Open surface area 1.88
DS-662MG	1.25" Plastic Slotted Radius Coupling Grate	Green	6	0.15	25DS	square inches per grate. 5.75 GPM per grate.
DS-663MG	1.25" Plastic Slotted Radius Coupling Grate	Black	6	0.15	25DS	. 0
DS-664MG	1.25" Plastic Slotted Radius Coupling Grate	Sand	6	0.15	25DS	
DS-665MG	1.25" Plastic Slotted Radius Coupling Grate	Brick Red	6	0.15	25DS	



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
DS-681LGMG	1.25" Plastic Standard Radius Coupling Grate (no slot)	Light Gray	6	0.16	25DS	Solid Structural Foam Polyolefin Radius Coupling Channel Grate with UV inhibitor.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
DS-232MG	1.25" Ductile Iron Radius Coupling Grate	Black	6	0.93	25DS	Ductile Iron Radius Coupling Channel Grate. Open surface area 1.88 square inches per grate. 5.75 GPM per grate.

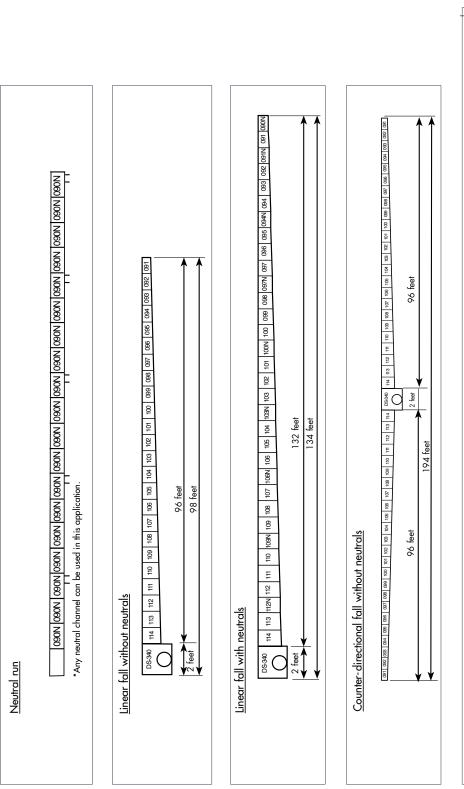


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
DS-226MG	1.25" Perforated Stainless Steel Radius Coupling Grate	Steel	6	0.25	25DS	Stainless Steel Radius Coupling Channel Grate. Open surface area 0.86 square inches per grate. 2.63 GPM per grate.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
DS-221MG	1.25" Galvanized Steel Radius Coupling Grate	Steel	6	0.3 3	25DS	Galvanized Steel Coupling Channel Grate. Open surface area 1.31 square inches per grate. 4.01 GPM per grate.

Dura Slope™ System Profiles



266 feet 2 feet Ok O Counter-directional fall with neutrals

Note: Drawings are not to scale. See previous pages for actual product dimensions.





Details

Unique patented flying buttress design provides load-bearing support from both sides as well as underneath.

Available in three sizes: Spee-D® for driveways, large decks and commercial areas; Mini for landscapes, pools or decks; and Micro for residential pools and spas.

Unique flanges on the bottom of the channel provide an anchoring lip for straight installation and prevents floating.

Materials and Standards

Only channels made of PVC can be cut to any length and solvent-welded like PVC pipe.

Grates available in six colors with decorative options - see individual products for details.

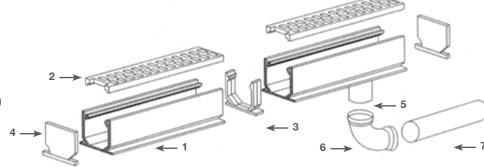
Mini Channel Grate also available in solid brass.

Channel system offers choice of bottom, end or side outlets.

Concrete is not required under some channels for light vehicular applications. Standards vary per product.

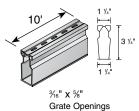
Mini and Spee-D® Channel System Components

- 1. Channel
- 2. Grate
- 3. Coupling
- 4. End Cap or End Outlet
- 5. Channel Bottom Outlet
- 6. Sewer and Drain Fitting
- 7. Drain Pipe



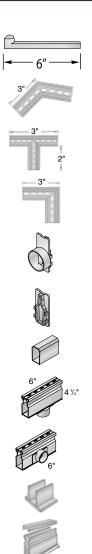
Micro Channel™ Drains

Excellent performance at lowest possible cost. Designed for residential applications including swimming pools, spas and patios. Unique design features grate openings parallel to channel length and recessed grate for strength and effective runoff capture.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
8001	10' Long Micro Channel	White	100 ft.	5.00	25PF	10 ft. Micro Channel with
8002	10' Long Micro Channel	Sand	100 ft.	5.00	25PF	Recessed Reinforced Grate Area, Parallel Drain Slots
8003	10' Long Micro Channel	Gray	100 ft.	5.00	25PF	with UV inhibitor. Open
广	Includes 1 coupling.					surface area 1.00 square inch per linear foot. 3.06
\wedge	(see page 75). ADA Compliant/Heel-proof.					GPM per foot. PVC.

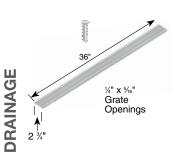
Micro Accessories



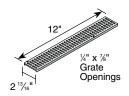
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
230	6" Channel Installation Stake	Gray	24	0.04	25PF
8301	Micro Channel 45° Elbow	White	5	0.30	25PF
8302	Micro Channel 45° Elbow	Sand	5	0.30	25PF
8303	Micro Channel 45° Elbow	Gray	5	0.30	25PF
8371	Micro Channel Tee	White	5	0.40	25PF
8372	Micro Channel Tee	Sand	5	0.40	25PF
8373	Micro Channel Tee	Gray	5	0.40	25PF
8381	Micro Channel 90° Elbow	White	5	0.40	25PF
8382	Micro Channel 90° Elbow	Sand	5	0.40	25PF
8383	Micro Channel 90° Elbow	Gray	5	0.40	25PF
8461	Micro 11/2" Sch. 40 Spigot End Outlet	White	10	0.10	25PF
8462	Micro 11/2" Sch. 40 Spigot End Outlet	Sand	10	0.10	25PF
8463	Micro 11/2" Sch. 40 Spigot End Outlet	Gray	10	0.10	25PF
8471	Micro End Plug	White	20	0.05	25PF
8472	Micro End Plug	Sand	20	0.05	25PF
8473	Micro End Plug	Gray	20	0.05	25PF
8481	Micro Channel Couplings only Fits inside channel	White	20	0.10	25PF
8501	Micro 11/2" Sch. 40 Spigot Bottom Outlet	White	10	0.35	25PF
8502	Micro 11/2" Sch. 40 Spigot Bottom Outlet	Sand	10	0.35	25PF
8503	Micro 11/2" Sch. 40 Spigot Bottom Outlet	Gray	10	0.35	25PF
8511	Micro 11/2" Sch. 40 Spigot Side Outlet	White	10	0.35	25PF
8512	Micro 11/2" Sch. 40 Spigot Side Outlet	Sand	10	0.35	25PF
8513	Micro 11/2" Sch. 40 Spigot Side Outlet	Gray	10	0.35	25PF
8601	Micro Hold-Down Clips Use with Channel Stakes to hold channel in place	White	20	0.10	25PF
8651	Micro Channel Cleanout	White	10	0.30	25PF
8652	Micro Channel Cleanout	Sand	10	0.30	25PF
8653	Micro Channel Cleanout	Gray	10	0.30	25PF

Mini Channel™ Drains

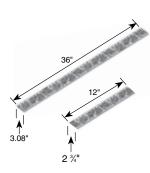
Excellent for light-duty applications including residential pools, concrete and paver patios, spas and tennis courts.



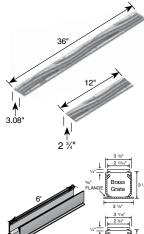
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
529	Stainless Steel Screws, FH #4 x 5/8"	Steel	64	0.10	25PF	3 ft. Structural Foam
540	3' Channel Grate	White	48 ft.	0.66	25PF	Polyolefin Channel Grate with UV inhibitor. Open
541	3' Channel Grate	Gray	48 ft.	0.66	25PF	surface area 9.90 square
542	3' Channel Grate	Green	48 ft.	0.66	25PF	inches per foot. 30.29 GPM
543	3' Channel Grate	Black	48 ft.	0.66	25PF	per foot.
544	3' Channel Grate	Sand	48 ft.	0.66	25PF	
551	3' Channel Grate	Brick Red	48 ft.	0.66	25PF	
	Requires 4 screws per Grate. (see page 75). ADA Compliant/Heel-proof.					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
552B	1' Brass Channel Grate	Satin Brass	12	1.25	25PF	1 ft. Mini Channel Solid Brass Grate with brass		
553PB	1' Brass Channel Grate	Polished Brass	12	1.25	25PF	screws. Open surface area		
*	Fits #500 Mini Channel. (see page 75). ADA Compliant/Heel-proof.					9.20 square inches per foot. 28.14 GPM per foot.		



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
846	Stainless Steel Screws, FH #4 x 1"	Steel	64	0.10	25PF	3 ft. Structural Foam Polyolefin		
554S	3' Botanical Channel Grate	Sand	16	0.89		botanical pattern Channel Grate with UV inhibitor. Open surface		
554GR	3' Botanical Channel Grate	Green	16	0.89		area 5.44 square inches per		
554GY	3' Botanical Channel Grate	Gray	16	0.89		foot. 16.64 GPM per foot.		
554	3' Botanical Channel Grate	Black	16	0.89		1 ft. Mini Channel botanical		
554CI	1' Botanical Cast Iron Channel Grate	Raw Iron	1	1.82		Cast Iron Channel Grate. Open		
629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40	n/a	10ND	surface area 5.39 square inches per foot. 16.49 GPM per		
	Fits #500 Mini Channel. (see page 75). ADA Compliant.					foot. Class B load rated.		



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
846	Stainless Steel Screws, FH #4 x 5/8"	Steel	64	0.10	25PF	3 ft. Structural Foam Polyolefin
555S	3' Wave Channel Grate	Sand	16	0.88		wave pattern Channel Grate with UV inhibitor. Open surface
555GR	3' Wave Channel Grate	Green	16	0.88		area 5.73 square inches per
555GY	3' Wave Channel Grate	Gray	16	0.88		foot. 17.54 GPM per foot.
555	3' Wave Channel Grate	Black	16	0.88		1 ft. Mini Channel Wave Cast
555CI	1' Wave Cast Iron Channel Grate	Raw Iron	1	1.30		Iron Channel Grate. Open
629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40	n/a	10ND	surface area 4.11 square inches per foot. 12.56 GPM per
	Fits #500 Mini Channel. (see page 75). ADA Compliant.					foot. Class B load rated.

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3 1/2" 3 1/16" 2 3/4"	5
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Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
500	6' Mini Channel Drain	Gray	48 ft.	3.26	25PF	6 ft. PVC Mini Channel Drain
	Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications		S.			with inverse flying-buttress design, bottom flange, patented honeycomb reinforced walls and UV inhibitor.

Mini Channel™ Accessories

Excellent for light duty applications, including residential pools, concrete and paver patios, spas and tennis courts.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class
529	Stainless Steel Screws, FH #4 x 5/8"	Steel	64	0.10	25PF
230	6" Channel Installation Stake	Gray	24	0.04	25PF
532	2" Sch. 40 Hub to 3" S&D Spigot Adapter	White	20	0.14	30PV
533	2" Sch. 40 Hub to 4" S&D Spigot Adapter	White	20	0.34	30PV
546	Spigot End Outlet for 2" Sch. 40 Pipe Fitting	Gray	10	0.15	25PF
547	3" Channel End Cap	Gray	20	0.12	25PF
548	3" Channel Coupling	Gray	20	0.12	25PF
550	3' Long Channel with 2" Sch. 40 Spigot Bottom Outlet	Gray	6	2.17	25PF
5300	Fabricated 45° Elbow with Grate	Gray	1	0.40	25PF
5303	Fabricated 45° Elbow with Grate	Sand	1	0.40	25PF
5370	Fabricated Tee with Grate	Gray	1	0.50	25PF
5372	Fabricated Tee with Grate	Black	1	0.50	25PF
5374	Fabricated Tee with Grate	Brick Red	1	0.50	25PF
5380	Fabricated 90° Elbow with Grate	Gray	1	0.40	25PF
5383	Fabricated 90° Elbow with Grate	Sand	1	0.40	25PF

Mini Channel™ Paver Installation

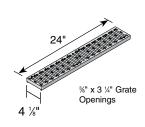
NDS Mini Channel and grates are dimensionally compatible with standard 2-3/8" clay and concrete paving systems. Both decorative and standard grate options make Mini Channel an ideal choice for drainage on paver parking courts, patios and plazas.



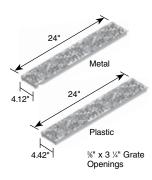


Spee-D® Channel Drains

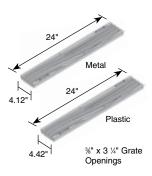
Ideal for commercial as well as residential applications. Effective in everything from patios to light vehicular traffic areas.



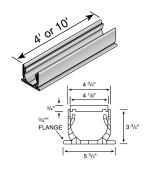
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
229	Stainless Steel Screws, FH #8 x 1"	Steel	48	0.06	25PF	2 ft. Structural Foam
240	2' Channel Grate	White	24 ft.	1.33	25PF	Polyolefin Secured Channel Grate with UV inhibitor. Open
241	2' Channel Grate	Gray	24 ft.	1.33	25PF	surface area 16.76 square
242	2' Channel Grate	Green	24 ft.	1.33	25PF	inches per foot. 51.27 GPM per foot.
243	2' Channel Grate	Black	24 ft.	1.33	25PF	per root.
244	2' Channel Grate	Sand	24 ft.	1.33	25PF	2 ft. Galvanized Steel Channel Grate. Open surface
251	2' Channel Grate	Brick Red	24 ft.	1.42	25PF	area 15.49 square inches per
254	2' Galvanized Steel Channel Grate	Galvanized Steel	24 ft.	1.90	25PF	foot. 47.39 GPM per foot.
	(see page 75). ADA Compliant.					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
829	Stainless Steel Screws, FH #8 x 1-1/4"	Steel	48	0.06	25PF	2 ft. Structural Foam Polyolefin
252S	21 Channel Botanical Grate	Sand	24 ft.	1.74		decorative botanincal Channel Grate with UV inhibitor. Open
252GR	2' Channel Botanical Grate	Green	24 ft.	1.74		surface area 7.78 square inches per foot. 23.80 GPM per foot.
252GY	2' Channel Botanical Grate	Gray	24 ft.	1.74		
252	21 Channel Botanical Grate	Black	24 ft.	1.74		
252CI	21 Cast Iron Channel Botanical Grate	Raw Iron	2 ft.	7.06		2 ft. Cast Iron decorative botanincal Channel Grate.
629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40	n/a	10ND	Open surface area 8.99 square
	(see page 75). ADA Compliant.					inches per foot. 27.50 GPM per foot. Class B load rated.

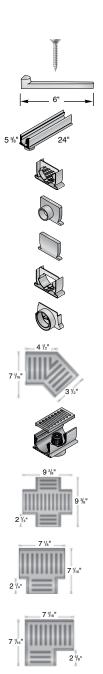


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
829	Stainless Steel Screws, FH #8 x 1-1/4"	Steel	48	0.06	25PF	2 ft. Structural Foam Polyolefin
253S	2' Channel Wave Grate	Sand	24 ft.	1.84		decorative wave Channel Grate with UV inhibitor. Open surface
253GR	2' Channel Wave Grate	Green	24 ft.	1.84		area 7.78 square inches per foot. 23.80 GPM per foot.
253GY	2' Channel Wave Grate	Gray	24 ft.	1.84		
253	2¹ Channel Wave Grate	Black	24 ft.	1.84		2 ft. Cast Iron decorative wave
253CI	2' Cast Iron Channel Wave Grate	Raw Iron	2 ft.	7.52		Channel Grate. Open surface area 7.41 square inches per
629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40	n/a	10ND	foot. 22.67 GPM per foot. Class
	(see page 75). ADA Compliant.					B load rated.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
400	4' Channel Drain	Gray	24 ft.	4.83	25PF	See related specifications for
400-10	10' Channel Drain	Gray	60 ft.	11.00	25PF	400-10 channel and 241 and 254 grates.
400-10WH	10' Channel Drain Assembly with pre-fastened Gray Plastic Grates	Gray	60 ft.	17.5	25PF	204 gratos.
400-10MTL	10' Channel Drain Assembly with pre-fastened Galvanized Steel Grates	Galvanized Steel	60 ft.	20.5	25PF	
	Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" below finished grade					

Spee-D® Accessories



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Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
229	Stainless Steel Screws, FH #8 x 1"	Steel	48	0.06	25PF
230	6" Channel Installation Stake	Gray	24	0.04	25PF
234	2' long fabricated 3" & 4" Spigot Bottom Outlet with Strainer. Fits 3" or 4" Sewer and Drain Fittings. Grates not included.	Gray	12	2.67	25PF
245	Channel Strainer Coupling	Gray	20	0.35	25PF
246	2" Schedule 40 SPT End Outlet	Gray	10	0.40	25PF
247	Channel End Cap	Gray	10	0.40	25PF
248	Channel Coupling	Gray	20	0.40	25PF
249	3" & 4" Offset End Outlet Connects to 3" S&D Pipe, 4" S&D Fittings	Gray	10	0.50	25PF
2301	Fabricated 45° Elbow with Grate	Gray	1	2.00	25PF
2351	7" Fabricated Grate 4" Bottom Outlet with Grate	Gray	1	1.70	25PF
2361	Fabricated Cross and Grate	Gray	1	3.00	25PF
2370	Fabricated Tee with Grate	White	1	3.00	25PF
2371	Fabricated Tee with Grate	Gray	1	3.00	25PF
2372	Fabricated Tee with Grate	Green	1	3.00	25PF
2381	Fabricated 90° Elbow with Grate	Gray	1	3.00	25PF





NDS Pro Series is a lightweight channel drain system with interlocking joints and a modular design, so systems are flexible and connections are made quickly and easily.

Load Rated: Up to Class C with appropriate grate. For Residential and Commercial applications.

The NDS Pro Series modular design offers flexibility as each section of channel can be snapped together for longer runs or divided down to lengths as short as 4" for smaller, interlocking sections.

Lightweight parts connect easily to sewer and drain pipe and fittings or Sch 40 pipe and fittings, and side and bottom outlets can be connected anywhere along the channel run.

- Channel-to-channel clips for reduced motion during installation
- Rebar clips instead of lower mount clips for an easier install
- Side ribs for increased strength

 Lay-flat design stablizes channel during installation

 Thicker channel walls for additional strength

 All this, and the channel still fits easily with all grates and end connectors.

 Clip-in feature (channel to channel)

 Rebar tie-clips for easier installation

Extended ribs to make channel more sturdy

Lay-flat design increases stability

Details

- Create a channel as long as you need, or reduce to lengths as short as 4" for smaller, interlocking sections.
- End cap/knockout end and outlet fitting simplify assembly and installation.
- Flexible and easy: side and bottom outlets can be inserted at any location along the channel run.
- Available in four widths: 3", 5", 8" and 12"
- · Available in two depths: deep for heavy flows, shallow for slabs or where little fall depth is available.
- Modular design comes in 1/2 meter (19 11/16") and 1 meter (39 3/8") pieces with interlocking end joints.
- Joints eliminate couplings and are specially designed to withstand concrete expansion and contraction.

Materials & Standards

- Polypropylene (3" & 5" channels) and polyvinyl chloride (8" & 12" channels) create a structurally-compact, water-tight channel.
- All parts contain UV inhibitors to prevent fading and cracking.

Load Recommendations

- Pedestrian Grates offer heel-proof pattern.
- Polyolefin Light Vehicular Grate for use in areas with passenger vehicles and light trucks with speeds less than 20 MPH.
- Load Star or Ductile Channel Grates for heavy-duty traffic.
- · See individual products for details.

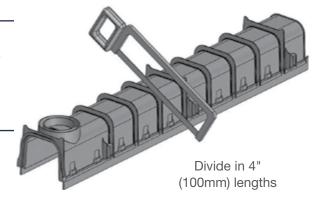
Pre-Assembled Channel Drain Systems

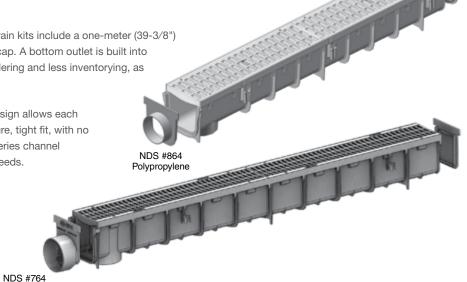
Our Modular Pro Series channel drains also come in pre-assembled kits to decrease installation time. They act as perimeter drains, quickly removing water from hardscapes and directing it away from building structures.

Polypropylene

The 3" and 5" wide pre-assembled channel drain kits include a one-meter (39-3/8") channel drain and grate, end outlet, and end cap. A bottom outlet is built into each channel section. This allows for easy ordering and less inventorying, as everything is included under one part number.

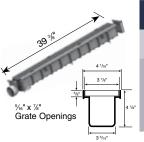
Our unique Pro Series interlocking channel design allows each channel to securely lock to the next for a secure, tight fit, with no couplings required. The pre-assembled Pro Series channel drains are a great solution for your drainage needs.



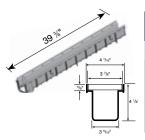




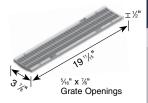
3" Pro Series Channel™ Drains



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
764	3" x 1 Meter Light Traffic Channel Grate & Channel Drain Kit	Light Gray	10	3.50	25IN	3" wide Light Traffic Channel Grate and			
~	Includes 1 end outlet (#713) and 1 end cap (#712). I Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications (see page 75). ADA Compliant.	non-traffic application	Ŭ			Channel Drain with mechanical interlocking joints and UV inhibitors. Open surface area 23.63 square inches per foot. 76.85 GPM per foot.			



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
710	3" x 1 Meter Channel Drain*	Light Gray	12	1.90	25IN	3" wide Light Traffic			
	Bottom outlet fits 3" S&D fittings. Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications	Channel with mechanical interlocking joints and UV inhibitors. Polypropylene.							
	*Produced under license of First Plast S.R.L Italy.								
(see page 75). ADA Compliant.									



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
714	3" x 20" Light Traffic Channel Grate*	Light Gray	24	0.70	25IN	3" wide Light Traffic
	Requires 4 #229 screws. *Produced under license of First Plast S.R.L Italy. (see page 75). ADA Compliant.					Channel Grate. Open surface area 23.63 square inches per foot. 72.29 GPM per foot. Polypropylene.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
713	3" End Cap/End Outlet	Light Gray	12	0.10	25IN	3" Channel End Cap/End	
	Fits 3" Fittings.					Outlet. Polypropylene.	

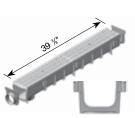


Part No.	Description	Color	Pkg. Qty.		Product Class	Specifications
712	3" End Cap	Light Gray	20	0.05	25IN	3" Channel End Cap. Polypropylene.



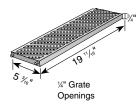
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
229	Stainless Steel Screws FH H8 x 1"	Steel	48	0.06	25PF	

5" Pro Series Channel™ Drains

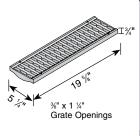


%" x 1 1/4" Grate Openings

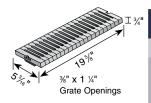
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
864	5"x 1 Meter Light Traffic Channel Kit with Plastic Grates. Includes 1 End Outlet & 1 Cap	Light Gray	9	5.67	25IN	5" wide Light Traffic Channel Drain Kits and Displays. See related specifications for 800 Channel and 814 & 824 Grates.		
864DISPLAY	5" Pro Series Channel Kit with Plastic Grate Display (9 kits)	Light Gray	1 box = 9 kits	51.03	25IN			
864GMTL	5"x 1 Meter Light Traffic Channel Kit with Steel Grates. Includes 1 End Outlet & 1 Cap	Galvanized Steel	9	6.15	25IN			
864GMTLDISP	5" Pro Series Channel Kit with Steel Grate Display (9 kits)	Galvanized Steel	1 box = 9 kits	55.35	25IN			
	Grate should be recessed 1/8" below finish grade in non-traffic applications. Grate should be recessed 1/4" below finish grade in traffic applications.							



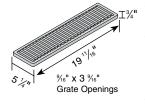
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
826	5" x 20" Pedestrian Traffic Channel Grate	Light Gray	10	1.00	25IN	5" wide UV-protected
六	Requires #829 screws. (see page 75). ADA Compliant/Heelproof.					Structural Foam Polyolefin Pedestrian Traffic Channel Grate. Open surface area 4.86 square inches per foot. 24.26 GPM per foot.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
814	5" x 20" Light Traffic Channel Grate	Light Gray	10	1.16	25IN	5" wide Structural Foam		
815	5" x 20" Light Traffic Channel Grate	Green	10	1.16	25IN	Polyolefin Light Traffic Channel Grate with UV		
816	5" x 20" Light Traffic Channel Grate	Black	10	1.16	25IN	inhibitors. Open surface		
817	5" x 20" Light Traffic Channel Grate	Sand	10	1.16	25IN	area 23.52 square inches per foot. 71.95 GPM		
818	5" x 20" Light Traffic Channel Grate	Brick Red	10	1.16	25IN	per foot.		
819	5" x 20" Light Traffic Channel Grate	White	10	1.16	25IN	2 ft. Galvanized Steel		
824	5" x 20" Galvanized Steel Light Traffic Channel Grate	Galvanized Steel	10	1.14	25IN	Channel Grate. Open surface area 19.32 square		
~	Requires #829 screws. (see page 75). ADA Compliant.					inches per foot. 59.1 GPM per foot.		



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
828	5" x 20" Load Star Heavy Traffic Channel Grate	Gray	10	2.35	25IN	5" wide UV-protected high-
	Requires 4 screws per grate. Requires #829 screws. (see page 75)					impact glass-reinforced nylon Heavy Traffic Channel Grate. Open surface area 15.92 square inches per foot. 48.70 GPM per foot.



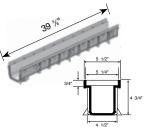
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
823	5" x 20" Ductile Channel Grate	Black	1	12.30	25IN	5" wide heavy-duty Ductile	
	Requires #829 screws. (see page 75). ADA Compliant.					Heavy Traffic Channel Grate. Open surface area 22.90 square inches per foot. 70.05 GPM per foot.	



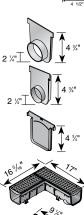
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
829	Stainless Steel Screws FH #6 x 11/4"	Steel	40	0.15	25PF	



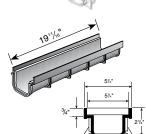
5" Pro Series Channel™ Drains (continued)



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
800	5" x 1 Meter Deep Profile Channel Drain	Light Gray	10	4.00	25IN	5" wide Deep Profile		
	Integrated knockout bottom outlet fits 3" and 4" S& Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications	non-traffic application	IS.			Channel Drain with mechanical interlocking joints, integrated knockout bottom outlet. Polypropylene.		



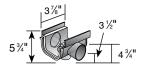
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
811	5" Deep Profile 3" S&D Pipe Hub & 4" S&D Fitting SPT End Outlet	Light Gray	10	0.40	25IN	5" wide Deep Profile End Outlet. PVC. 5" wide Deep Profile End Cap/End Outlet. PVC. 5" wide Deep Profile End Cap. PVC.
813	5" Deep Profile End Cap/3" S&D Hub & 4" S&D SPT Knockout End Outlet	Light Gray	10	0.40	25IN	
812	5" Deep Profile End Cap	Light Gray	10	0.13	25IN	
861	5" Deep Profile Grate & Channel Drain 90° Elbow	Light Gray	1	3.44	25IN	
862	5" Deep Profile Grate & Channel Drain 45° Elbow	Light Gray	1	3.44	25IN	
PSRC-864	Quik-Turn™ 5" Deep Radius Coupling Provides a 6 degree bend left or right	Light Gray	9	0.30	25IN	



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
820	5" x 20" Shallow Profile Channel Drain*	Light Gray	10	1.35	25IN	5" wide Shallow Profile UV-protected high- impact PVC Channel Drain with mechanical interlocking joint.
	Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications *Produced under license of First Plast S.R.L Italy.		S.			

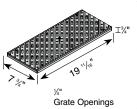


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
821	5" Shallow Profile End Cap/1½" Sch. 40 SPT Knockout End Outlet*	Light Gray	10	0.15	25IN	5" wide Shallow Profile high-impact PVC End Cap/	
	*Produced under license of First Plast S.R.L Italy.					End Outlet.	

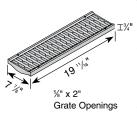


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
822	5" Shallow Profile 3" S&D SPT Bottom Outlet/1½" Sch. 40 SPT Side Outlet	Light Gray	10	0.60	25IN	5" wide Shallow Profile high-impact PVC Bottom/ Side Outlet.

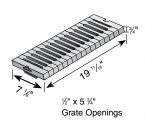
8" Pro Series Channel™ Drains



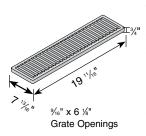
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
836	8" x 20" Pedestrian Traffic Channel Grate	Light Gray	1	1.55	25IN	8" wide UV-protected
Ķ	Requires #829 screws. 4 screws per grate. (see page 75). ADA Compliant/Heelproof.					Structural Foam Polyolefin Pedestrian Traffic Channel Grate. Open surface area 13.82 square inches per foot. 42.28 GPM per foot.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
837	8" x 20" Light Traffic Channel Grate	Light Gray	1	3.00	25IN	8" wide UV-protected
~	Requires #829 screws. 4 screws per grate. (see page 75)					Structural Foam Polyolefin Light Traffic Channel Grate. Open surface area 30.28 square inches per foot. 92.63 GPM per foot.



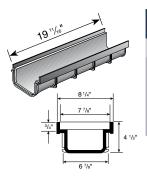
Wt. Ea. (lbs.)	Product Class	Specifications			
3.59	25IN	8" wide UV-protected high-impact glass-			
		reinforced nylon Heavy Traffic Channel Grate. Open surface area 30.85			
*Produced under license of First Plast S.R.L Italy. (see page 75). ADA Compliant.					
		(,			



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
888	8" x 20" Ductile Channel Grate	Black	1	22.24	25IN	8" wide heavy-duty
	#829 screws may be used. 4 screws per grate. (see page 75)					Ductile Heavy Traffic Channel Grate. Open surface area 23.80 square inches per foot. 71.28 GPM per foot.



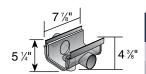
8" Pro Series Channel™ Drains (continued)



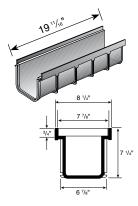
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
830	8" x 20" Shallow Profile Channel Drain*	8" wide Shallow Profile				
	Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic application: *Produced under license of First Plast S.R.L Italy.		ns.			high-impact PVC Channel Drain with mechanical interlocking joints and UV inhibitors.



Part No.	Description		Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
831	8" Shallow Profile End Cap/ 3" S&D SPT Knockout End Outlet*	Light Gray	1	0.49	25IN	8" wide Shallow Profile high-impact PVC End Cap/	
	*Produced under license of First Plast S.R.L Italy.					End Outlet.	



Part No.	Description	Color	Pkg. Qty.		Product Class	Specifications
832	8" Shallow Profile 3" S&D SPT Side Outlet*	Light Gray	1	1.38	25IN	8" wide Shallow
	Bottom outlet fits 4" S&D pipe, 3" S&D fittings.					Profile high-impact PVC Bottom/Side Outlet.
	*Produced under license of First Plast S.R.L Italy.					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
833	8" x 20" Deep Profile Channel Drain	Light Gray	1	2.80	25IN	8" wide Deep Profile			
	Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications		S.			high-impact PVC Channel Drain with mechanical interlocking joints and UV inhibitors.			

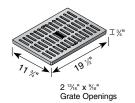


Part No.	Description		Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
834	8" Deep Profile End Cap/3"& 4" S&D SPT Knockout End Outlet	Light Gray	10	0.51	25IN	8" wide Deep Profile high-impact PVC End
	*Produced under license of First Plast S.R.L Italy.					Cap/End Outlet.

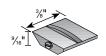
12" Pro Series Channel™ Drains



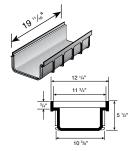
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
847	12" x 20" Light Traffic Channel Grate*	Gray	1	4.64	25IN	12" wide UV-protected
	*Produced under license of First Plast S.R.L Italy. (see page 75)					high-impact PVC Light Traffic Channel Grate. Open surface area 48.77 square inches/ foot. 149.19 GPM per foot.



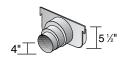
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
845	12" x 20" Cast Iron Heavy Traffic Channel Grate	Black	1	28.00	25IN	Specifications 12" Wide Cast Iron Heavy Traffic Channel Grate. Open surface area 46.70 square inches per foot.
	(see page 75)					•



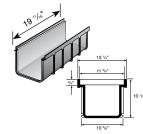
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
849	Grate Security Clip*	Gray	10	0.40	25IN	
	For use with 845 and 847 grates and 840 or 843 channels only (2 per grate). Mounts inside channel drain and secures grate. Screw and nut included.					
	*Produced under license of First Plast S.R.L Italy.					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
840	12" x 20" Shallow Profile Channel Drain	Light Gray	1	4.00	25IN	12" wide Shallow Profile
	Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications		S.			UV-protected high-impact PVC Channel Drain with mechanical interlocking joints.



Part No.	Description		Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
841	12" Shallow Profile End Cap/3" & 4" S&D SPT Knockout End Outlet	Light Gray	1	1.00	25IN	12" wide Shallow Profile high-impact PVC End Cap/3" & 4" Corrugated S&D Pipe.



	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
	843	12" x 20" Deep Profile Channel Drain*	Light Gray	1	6.00	25IN	12" wide Deep Profile	
6		Grate should be recessed 1/8" below finish grade in Grate should be recessed 1/4" in traffic applications		IS.		UV-protected high- impact PVC Channel Drain with mechanical		
		*Produced under license of First Plast S.R.L Italy.					interlocking joints.	



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
844	12" Deep Profile End Cap/3" & 4" S&D SPT Knockout End Outlet*	Light Gray	1	1.60	25IN	12" wide Deep Profile high- impact PVC End Cap/3" & 4"
	*Produced under license of First Plast S.R.L Italy.					Corrugated S&D Pipe.



FILCOTEN® by NDS®

FILCOTEN® TEC V 100 Trench Drain

Tech V 100 Galvanized Steel Trench Drain



Part No.	Description	Material	Cart0n Qty.	Weight Ea. (lbs.)	Product Class
10410200	Filcoten Tec V 100 Channel 0 without slope	Galvanized Rail	30	28.88	25FC
10410201	Filcoten Tec V 100 Channel 1 with .5% slope	Galvanized Rail	24	29.32	25FC
10410202	Filcoten Tec V 100 Channel 2 with .5% slope	Galvanized Rail	24	30.20	25FC
10410203	Filcoten Tec V 100 Channel 3 with .5% slope	Galvanized Rail	24	30.86	25FC
10410204	Filcoten Tec V 100 Channel 4 with .5% slope	Galvanized Rail	24	31.75	25FC
10410205	Filcoten Tec V 100 Channel 5 with .5% slope	Galvanized Rail	24	32.63	25FC
10410206	Filcoten Tec V 100 Channel 6 with .5% slope	Galvanized Rail	24	33.51	25FC
10410207	Filcoten Tec V 100 Channel 7 with .5% slope	Galvanized Rail	24	34.29	25FC
10410208	Filcoten Tec V 100 Channel 8 with .5% slope	Galvanized Rail	24	35.05	25FC
10410209	Filcoten Tec V 100 Channel 9 with .5% slope	Galvanized Rail	24	35.94	25FC
10410210	Filcoten Tec V 100 Channel 10 with .5% slope	Galvanized Rail	24	36.82	25FC
10410261	Filcoten Tec V 100 Channel 5-0 without slope	Galvanized Rail	24	33.07	25FC
10410262	Filcoten Tec V 100 Channel 10-0 without slope	Galvanized Rail	24	37.26	25FC
10410291	Filcoten Tec V 100 Sump	N/A	20	52.91	25FC

FILCOTEN® PRO V 200 Trench Drain

Pro 200 Galvanized Steel Trench Drain



			Cart0n	Weight	Product
Part No.	Description	Material	Qty.	Ea. (lbs.)	Class
10620200	Filcoten Pro V 200 Channel 0 without slope	Galvanized Rail	9	97.00	25FC
10620201	Filcoten Pro V 200 Channel 1 with .5% slope	Galvanized Rail	6	98.11	25FC
10620202	Filcoten Pro V 200 Channel 2 with .5% slope	Galvanized Rail	6	100.31	25FC
10620203	Filcoten Pro V 200 Channel 3 with .5% slope	Galvanized Rail	6	102.51	25FC
10620204	Filcoten Pro V 200 Channel 4 with .5% slope	Galvanized Rail	6	104.72	25FC
10620205	Filcoten Pro V 200 Channel 5 with .5% slope	Galvanized Rail	6	106.92	25FC
10620206	Filcoten Pro V 200 Channel 6 with .5% slope	Galvanized Rail	6	109.13	25FC
10620207	Filcoten Pro V 200 Channel 7 with .5% slope	Galvanized Rail	6	111.33	25FC
10620208	Filcoten Pro V 200 Channel 8 with .5% slope	Galvanized Rail	6	113.54	25FC
10620209	Filcoten Pro V 200 Channel 9 with .5% slope	Galvanized Rail	6	115.74	25FC
10620210	Filcoten Pro V 200 Channel 10 with .5% slope	Galvanized Rail	6	117.95	25FC
10620261	Filcoten Pro V 200 Channel 5-0 without slope	Galvanized Rail	6	108.30	25FC
10620262	Filcoten Pro V 200 Channel 10-0 without slope	Galvanized Rail	6	118.83	25FC
10620264	Filcoten Pro V 200 Channel 20-0 without slope	Galvanized Rail	6	138.23	25FC
10620290	Filcoten Pro V 200 Sump	N/A	12	105.82	25FC

FILCOTEN® PRO V 300 Trench Drain

Pro V 300 Galvanized Steel Trench Drain





Part No.	Description	Material	Cart0n Qty.	Weight Ea. (lbs.)	Product Class
10630201	Filcoten Pro V 300 Channel 1 with .5" slope	Galvanized Rail	6	76.30	25FC
10630202	Filcoten Pro V 300 Channel 2 with .5" slope	Galvanized Rail	6	77.60	25FC
10630203	Filcoten Pro V 300 Channel 3 with .5" slope	Galvanized Rail	6	78.90	25FC
10630204	Filcoten Pro V 300 Channel 4 with .5" slope	Galvanized Rail	6	80.20	25FC
10630205	Filcoten Pro V 300 Channel 5 with .5" slope	Galvanized Rail	6	81.50	25FC
10630206	Filcoten Pro V 300 Channel 6 with .5" slope	Galvanized Rail	6	82.80	25FC
10630207	Filcoten Pro V 300 Channel 7 with .5" slope	Galvanized Rail	6	84.10	25FC
10630208	Filcoten Pro V 300 Channel 8 with .5" slope	Galvanized Rail	6	85.40	25FC
10630209	Filcoten Pro V 300 Channel 9 with .5" slope	Galvanized Rail	6	86.70	25FC
10630210	Filcoten Pro V 300 Channel 10 with .5" slope	Galvanized Rail	6	88.00	25FC
10630200	Filcoten Pro V 300 Channel 0 without slope	Galvanized Rail	6	170.42	25FC
10630262	Filcoten Pro V 300 Channel 10-0 without slope	Galvanized Rail	6	199.08	25FC
10630264	Filcoten Pro V 300 Channel 20-0 without slope	Galvanized Rail	6	244.05	25FC
10630290	Filcoten Pro V 300 Channel 30-0 without slope	Galvanized Rail	2	273.37	25FC

FILCOTEN® by NDS®

FILCOTEN® TEC V 100 Grates

		Part No.	Description	Material	Cart0n Qty.	Weight Ea. (lbs.)	Product Class
		17010105	Filcoten 100 DI Slotted Grate Class E 19.69 in	Ductile Iron	160	8.38	25FC
	Galvanized Steel	17010106	Filcoten 100 DI Bar Grate ADA/Heelproof Class C 19.69 in	Ductile Iron	240	7.94	25FC
	Perforated Grate	17010110	Filcoten 100 DI Bar Grate Class D 19.69 in	Ductile Iron	240	7.50	25FC
	P	17010202	Filcoten 100 G Slotted Grate Class A 39.37 in	Galvanized Steel	240	3.31	25FC
	Galvanized Steel Mesh Grate	17010203	Filcoten 100 G Slotted Grate Class A 19.69 in	Galvanized Steel	120	1.76	25FC
Comment of the second		17010204	Filcoten 100 G Perforated Grate Class A 39.37 in	Galvanized Steel	120	4.19	25FC
100	Galvanized Steel	17010205	Filcoten 100 G Perforated Grate Class A 19.69 in	Galvanized Steel	120	2.20	25FC
	Slotted Grate	17010206	Filcoten 100 G Slotted Grate Class C 39.37 in	Galvanized Steel	240	9.92	25FC
	>	17010207	Filcoten 100 G Slotted Grate Class C 19.69 in	Galvanized Steel	120	4.85	25FC
	Polyamide Composite Honeycomb Grate	17010220	Filcoten 100 G Mesh Grate Class B 39.37 in	Galvanized Steel	120	6.17	25FC
		17010221	Filcoten 100 G Mesh Grate Class B 19.69 in	Galvanized Steel	80	3.09	25FC
		17010228	Filcoten 100 G Perforated Grate Class C 39.37 in	Galvanized Steel	120	7.28	25FC
- 1000	Ductile Iron Reinforced Bar Grate	17010229	Filcoten 100 G Perforated Grate Class C 19.69 in	Galvanized Steel	120	3.75	25FC
		17010402	Filcoten 100 P Honeycomb Grate Class C 19.69 in	Plastic	160	2.43	25FC
	ì	17110243	Filcoten 100G Slot Top Grate Class C 39.37 in	Galvanized Steel	-	11.90	25FC
	Galvanized Steel	17110244	Filcoten 100 G Slot Top Grate Class C 19.69 in	Galvanized Steel	-	5.95	25FC
	Asymmetrical Slot Top Grate	17110281	Filcoten 100 G Slot Top Maintenance Unit Class C	Galvanized Steel	-	11.02	25FC

FILCOTEN® PRO V 200 Grates

	Part No.	Description	Material	Cart0n Qty.	Weight Ea. (lbs.)	Product Class
Galvanized Steel Perforated Grate	17020104	Filcoten 200 DI Bar Grate Class D 19.69 in	Ductile Iron	98	16.53	25FC
>	17020105	Filcoten 200DI Bar Grate Class E 19.69 in	Ductile Iron	98	18.96	25FC
Ductile Iron Longitudinal Bar Grate	17020228	Filcoten 200 G Perforated Grate Class C 39.27 in	Galvanized Steel	60	29.76	25FC
Ductile Iron Slotted Grate	17020229	Filcoten 200 G Perforated Grate Class C 19.69 in	Galvanized Steel	28	14.77	25FC

FILCOTEN® PRO V 300 Grates

1	Part No.	Description	Material	Cart0n Qty.	Weight Ea. (lbs.)	Product Class
Galvanized Steel Mesh Grate	17030103	Filcoten 300 DI Bar Grate Class E 19.69 in	Ductile Iron	30	39.46	25FC
1	17030222	Filcoten 300 G Mesh Grate Class C 39.37 in	Galvanized Steel	30	50.93	25FC
Ductile Iron Boltmax Grate	17030223	Filcoten 300 G Mesh Grate Class C 19.69 in	Galvanized Steel	30	25.57	25FC



FILCOTEN® by NDS®

FILCOTEN® TEC V 100 Accessories







Part No.	Description	Material	Weight Ea. (lbs.)	Product Class
19010915	Filcoten 100 Rebar Support	Galvanized Steel	2.65	25FC
19011204	Filcoten No Hub Bottom Outlet	Galvanized Steel	0.66	25FC
22515	Filcoten 100 Silt Bucket for Sump	Plastic	0.44	25FC
32087	Filcoten 100 Grate Locking Device	Galvanized Steel	0.22	25FC

FILCOTEN® PRO V 200 Accessories

FILCOTEN Pro Sump Unit 200



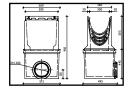


Part No.	Description	Material	Weight Ea. (lbs.)	Product Class
22512	Filcoten 200 Silt Bucket for Sump	Plastic	1.54	25FC
32089	Filcoten 200 Grate Locking Device	Galvanized Steel	0.22	25FC
70154	Filcoten 8" Pipe Connector for Catch Basin	Plastic	2.43	25FC
19020216	Filcoten 200 End Cap with Outlet	Galvanized Steel	1.10	25FC
19020230	Filcoten Closed End Cap	Galvanized Steel	0.88	25FC
19020295	Filcoten Step Connector Plate	Galvanized Steel	0.44	25FC
19020213	Filcoten 200 Closed End Cap	Galvanized Steel	0.88	25FC
19021208	Filcoten No Hub Bottom Outlet	Galvanized Steel	2.20	25FC

FILCOTEN® PRO V 300 Accessories

FILCOTEN Pro 300 Sump Kit with Silt Bucket





Part No.	Description	Material	Weight Ea. (lbs.)	Product Class
22213	Filcoten 300 Silt Bucket for Sump	Plastic	7.05	25FC
32110	Filcoten 300 Grate Locking Device	Galvanized Steel	0.22	25FC
19030213	Filcoten 300 Closed End Cap	Galvanized Steel	3.75	25FC
19030214	Filcoten 300 End Cap with Outlet	Galvanized Steel	3.53	25FC
19030290	Filcoten 300 Catch Basin End Cap Connector	Galvanized Steel	0.66	25FC
19030295	Filcoten 300 Step Connector Plate	Galvanized Steel	0.88	25FC
19060020	Filcoten 300 Catch Basin Extension Unit	Galvanized Rail	93.70	25FC

CAPACITY RECOMMENDATIONS - CHANNEL & TRENCH DRAINS

Micro Channel	1.25" Wide	Small Patio	Small Capacity
Mini Channel	2.75" Wide	Small Pool Deck and Patios	Small Capacity
Spee-D® Channel	4" Wide	Pool Decks and Patios	Medium Capacity
Pro 764 Series Channel	3" Wide	Patio, Pool Decks and Driveways	Small Capacity
Pro 864 Series Channel	5" Wide	Patio, Pool Decks and Driveways	Large Capacity
Pro Series Channel	8" & 12" Wide	Patio, Pool Decks and Driveways	Large Capacity
Dura Slope™ Trench Drain	6" Wide	Pre-sloped for Driveways, Warehouses, Loading Docks and Larger Commercial Projects	Large Capacity
Filcoten® by NDS®	4" 8" & 12" Wide	Fiber-Reinforced Concrete for Heavy Loads, Industrial Areas and Public Places	Large Capacity

LOAD RECOMMENDATION GUIDE

Class A

- Loads of 1-60 psi.
- · Recommended for pedestrians, bicycles and wheelchair traffic.

Class B

- Loads of 61-175 psi.
- Recommended for medium-duty pneumatic tire traffic, autos and light trucks at speeds less than 20 m.p.h.



Class C

- Loads of 176-325 psi.
- Recommended for heavy-duty pneumatic tire forklifts and tractor-trailers at speeds less than 20 m.p.h., H-20 rated.



Class D

- Loads of 326-575 psi.
- Recommended for heavy-duty hard tire forklifts at speeds less than 20 m.p.h., H-20 rated.



Notes: Some installations may require a concrete collar to meet load rating. Load ratings are based on encasing product in concrete. Product must be installed using NDS instructions.

Cast iron grates will oxidize over time and rust, forming an iron-oxide patina. The iron-oxide layer begins red-orange in color and ages to a deep, rich brown. This patina is tightly adhered and protects the iron beneath it from further oxidation. Iron grates with a rust patina are structurally sound and will last for decades.

Visit **ndspro.com** for complete installation specifications, guidelines & details.





Our products are engineered and produced for performance, durability, ease of installation and the efficient use of resources.

Visit ndspro.com for:



















ndspro.com

NDS Customer Service 851 N. Harvard Ave., Lindsay, CA 93247

Phone: 800.726.1994 · 559.562.9888 Fax: 800.726.1998 · 559.562.4488

Se Habla Español

New Mobile App -NDS Stormwater Drainage Tools





