



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

2019 Product Catalog

Residential Stormwater Management

Commercial Stormwater Management

Professional Irrigation

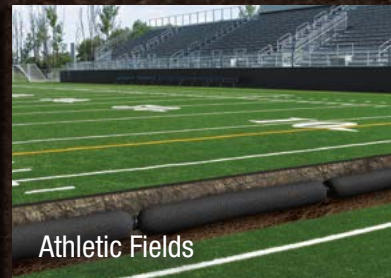
Flow Management



[ndspro.com](https://www.ndspro.com)

MADE IN
USA

SUBSURFACE DRAINAGE & INFILTRATION



THE NDS SOLUTION

Whether you need a dry well, French drain or infiltration trench, NDS has you covered with innovative and proven subsurface drainage and stormwater infiltration products. EZflow® French drain system, NDS® StormChamber® 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®, NDS® StormChamber® 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.**



DRAINAGE

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

NDS® StormChamber®

Stormwater chambers provide a lower cost alternative to drainage pipes for conveyance, with added benefits of groundwater recharge and water quality enhancement. Stronger and easier to maintain, NDS® StormChamber® is the ideal solution for stormwater detention and/or infiltration, providing easy installation and design flexibility to meet target stormwater runoff rates, volume control and water quality requirements.

- Thermo-formed high density weight polyethylene HMWPE material won't crack
- 100-year life expectancy – Longest on the market
- Saves time and money – offers the lowest installed cost
- Proprietary SedimenTrap™ offers centralized sediment control, gathering sediment and pollutants in one place for quick removal by vacuum truck.

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

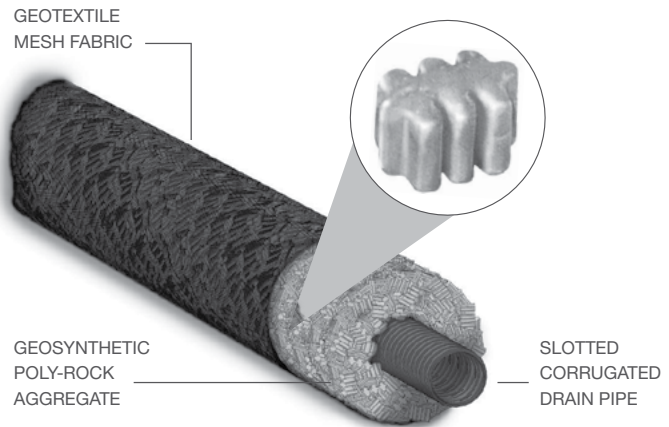
EZFLOW®: A BETTER FRENCH DRAIN



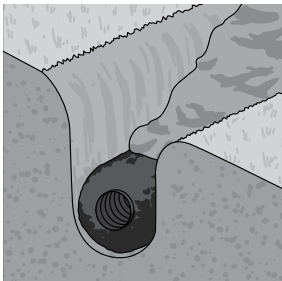
- Gravel-free installation provides up to 50% labor savings over traditional systems
- Better flow through and detention volume than traditional systems
- Durable with a 100-year lifespan
- Projects qualify for LEED credits

EZflow® Drainage Bundles

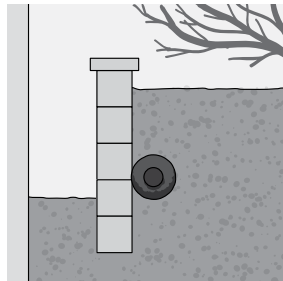
EZflow® drainage bundles are 10 feet in length with a slotted pipe surrounded by expanded polystyrene aggregate and enclosed in geotextile mesh. Configurations are available in 7-inch bundles with or without a 3-inch pipe, 10-inch bundles with or without a 4-inch pipe, and 15-inch bundles with or without 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.



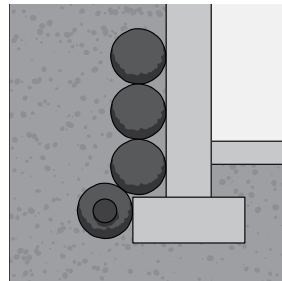
Applications



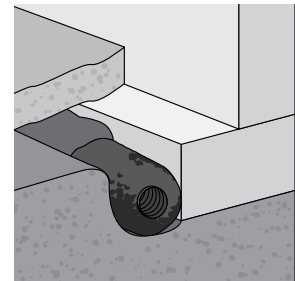
French/Interceptor Drains



Planter/Retaining Walls



Foundation Drains



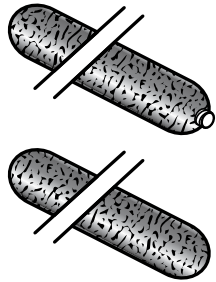
Basement/Crawlspace

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

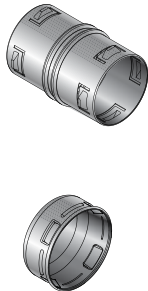
EZflow® Gravel-Free French Drain



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 100% recycled polystyrene aggregate and enclosed in 30-sieve polyethylene geotextile mesh.
EZ-1001F	10" mesh with 4" slotted pipe (center)	Black	50	29.5	11RP	
EZ-1501F	15" mesh with 6" slotted pipe (center)	Black	20	26.0	11RP	
EZ-0701A	7" mesh without pipe – aggregate only	Black	90	18.0	11RP	10 ft. segment of 100% recycled polystyrene aggregate only, enclosed in 30-sieve polyethylene geotextile mesh.
EZ-1001A	10" mesh without pipe – aggregate only	Black	50	13.5	11RP	
EZ-1501A	15" mesh without pipe – aggregate only	Black	20	12.4	11RP	

DRAINAGE

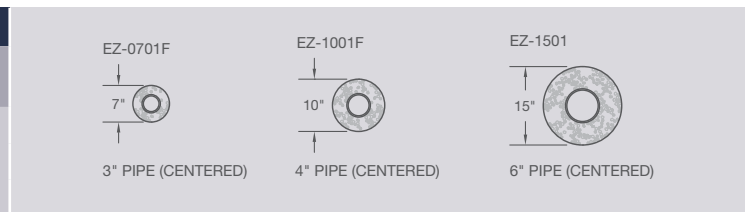
EZflow® Internal Couplings & End Caps



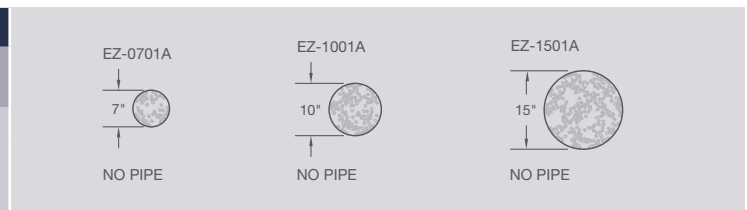
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3C05	3" Corrugated Internal Coupling	Black	60/box	0.30	11RP
4C07	4" Corrugated Internal Coupling	Black	36/box	0.30	11RP
6C07	6" Corrugated Internal Coupling	Black	12/box	0.80	11RP
3C06	3" Corrugated End Cap	Black	33/box	0.30	11RP
4C06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



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



NDS® STORMCHAMBER®: THE MOST COST-EFFECTIVE CHAMBER SOLUTION

DRAINAGE



NDS® StormChambers® are subsurface structures that are used to collect, retain and discharge stormwater on commercial and residential sites. They provide a lower cost alternative to drainage pipes for conveyance, with the added benefits of groundwater recharge and water quality enhancement.

Stronger & Easier to Maintain – High Volume Stormwater Retention

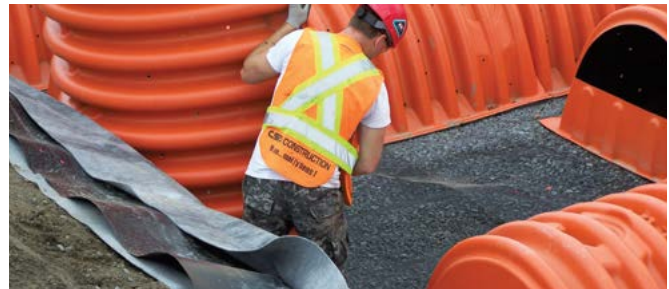
NDS® StormChamber® is the most cost-effective chamber solution on the market. Thermo-formed from high density weight polyethylene HMWPE material, it offers superior strength that won't crack even under the most extreme environments. Designed for fast installation and simple maintenance, NDS® StormChamber® is ideal for roadways, parking lots and fields and can stack, allowing for deeper installation and a smaller footprint.

Key Benefits:



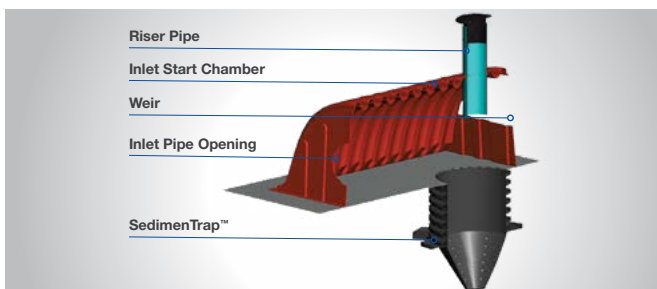
Strong, Flexible & Durable

- Meets H-20 standards
- Up to 16' cover when deep installs are required for the 34". Up to 12' for the 44"
- 100-Year Life Expectancy
- Withstands the most extreme environments
- Material bends instead of breaks, giving it a brittleness temperature of -107° F vs. industry average of -2° F



Fast Installation

- Built-in end walls
- No header pipe manifold system required
- Flexible design
- Lowest installed cost



Simple Maintenance

- Differentiated and centralized sediment control
- SedimenTrap™ gathers sediments and other pollutants in one place for quick, easy and inexpensive removal by vacuum truck



Stacks

- 34" Chambers: Capable of 3-layer stacking
- 44" Chambers: Contact NDS DesignWorx for any projects that may need stacking
- We offer expert site-specific design guidance based on 20 years of successful completion of projects

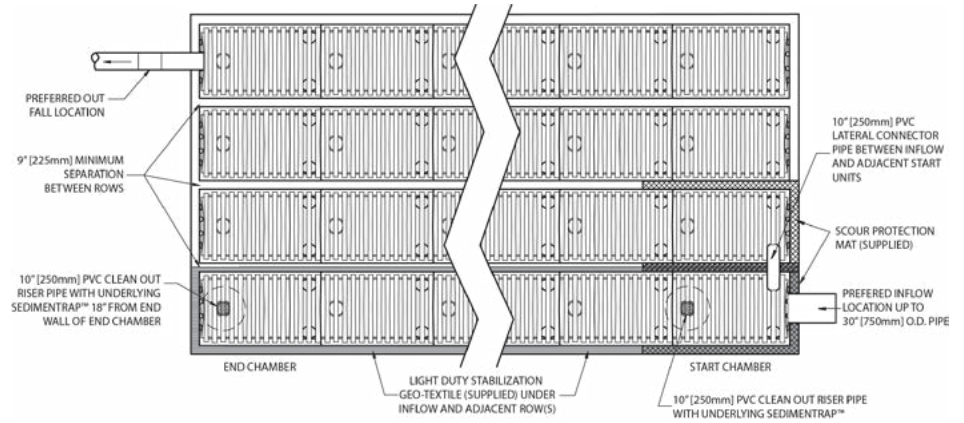
NDS® STORMCHAMBER®

NDS® StormChamber®

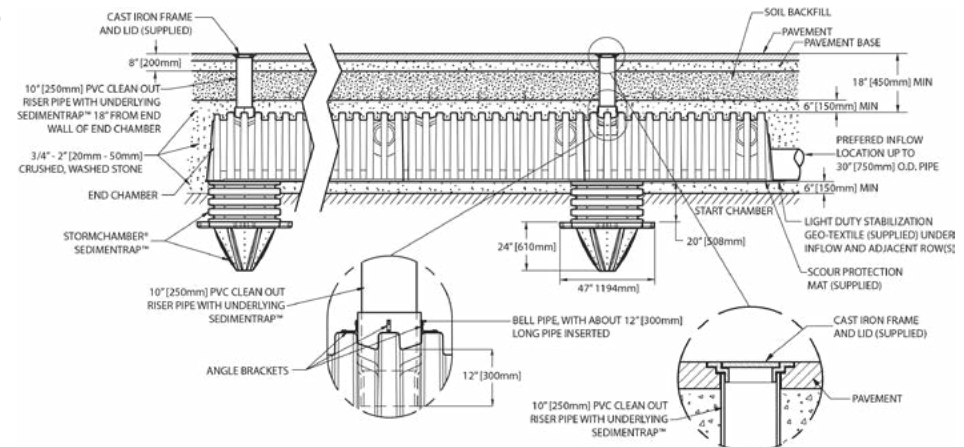


Part No.	Description	Color	Length	Width	Height	Weight (lbs.)	Per Pallet	Product Class
SC-3475W-S-0	75CUFT START CHAMBER100X60X34	Orange	100"	60"	34"	90	40	10SC
SC-3475W-E-0	75CUFT END CHAMBER100X60X34	Orange	100"	60"	34"	90	40	10SC
SC-3475W-M-0	75CUFT MIDDLE CHAMBER100X60X34	Orange	100"	60"	34"	90	40	10SC
SC-3475W-C-0	75CUFT CLOSED CHAMBER100X60X34	Orange	100"	60"	34"	90	40	10SC
SC-3475-S-0	75CUFT START CHAMBER102X60X34	Orange	102"	60"	34"	100	30	10SC
SC-3475-E-0	75CUFT END CHAMBER102X60X34	Orange	102"	60"	34"	100	30	10SC
SC-3475-M-0	75CUFT MIDDLE CHAMBER102X60X34	Orange	102"	60"	34"	100	30	10SC
SC-3475-C-0	75CUFT CLOSE CHAMBER102X60X34	Orange	102"	60"	34"	100	30	10SC
SC-44105-S-0	105CUFT START CHAMBER90X78X44	Orange	90"	78"	44"	120	20	10SC
SC-44105-E-0	105CUFT END CHAMBER90X78X44	Orange	90"	78"	44"	12	20	10SC
SC-44105-M-0	105CUFT MID CHAMBER90X78X44	Orange	90"	78"	44"	12	20	10SC
SC-44105-C-0	105CUFT CLOSE CHAMBER90X78X44	Orange	90"	78"	44"	12	20	10SC
SC-1820-S-0	20CUFT START CHAMBER 18"	Orange	100"	37"	18"	45	10SC	
SC-1820-E-0	20CUFT END CHAMBER 18"	Orange	100"	37"	18"	45	10SC	
SC-1820-M-0	20CUFT MIDDLE CHAMBER 18"	Orange	100"	37"	18"	45	10SC	
SC-1820-C-0	20CUFT CLOSED CHAMBER 18"	Orange	100"	37"	18"	45	10SC	
SC-ST	SEDIMENT TRAP	Orange	47" OD	-	2'	3	4	10SC
SC-NWFF-500	FILTER FABRIC NON-WOVEN LIGHT	Orange	360'	12.5'	1.5' OD roll	220	3	10SC
SC-WFF-75	STABILIZATION FABRIC WOVEN MEDIUM	Orange	75'	7.5'	0.75' OD roll	75	16	10SC
SC-CF-E	CINTOFLEX NETTING	Orange	330'	6.5'	0.75' OD roll	7	12	10SC
SC-FL-8	8" FRAME AND LID	Orange	10" OD	-	3"	20	-	10SC
SC-FL-10	10" FRAME AND LID	Orange	20" OD	-	3"	24	-	10SC
SC-3020P	30" X 20" HDPE PIPE	Orange	36" OD	-	20"	45	4	10SC

DRAINAGE



NDS® StormChamber® Elevated View



FLO-WELL®: A BETTER DRY WELL

DRAINAGE



With the Flo-Well®, water can now be infiltrated 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 infiltration is now easier than ever.

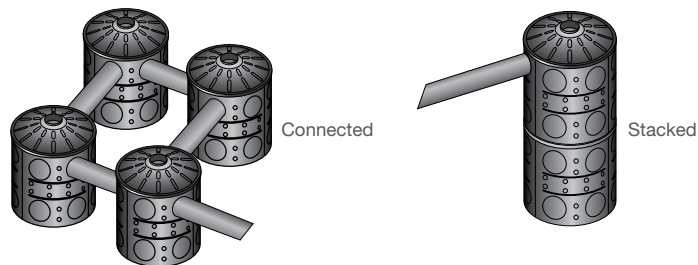
Options

Larger 9" or 12" grates can be added to Flo-Well to manage surface water.	Ideal as a stand-alone drain:	Ideal as a stand-alone reservoir:
This option is ideal for draining:	Disturbs only 4 square feet of turf to install	Collect and hold rainwater for lawn and garden irrigation (used with a pump connected to a garden hose)
Golf course areas prone to puddling	Requires less than 10 cubic feet of soil removed to bury	Connect Flo-Well to rain gutters using a catch basin & grate below each downspout (see drawing)
Playground areas under slides and swings	Measures only 24" in diameter by 28.75" high	Ideal solution for arid areas impacted by drought
Outdoor drinking fountain runoff	Weighs only 22 pounds	Reservoir for pond and waterfall recirculation pumps
Outdoor showers at beaches	Holds over 48 gallons. Or, connect to existing system for increased drainage capabilities	
Wash-down areas		

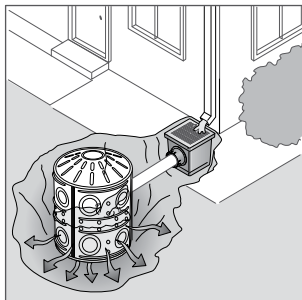


Stackable & Expandable

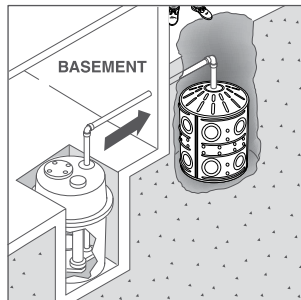
Flo-Well® can be used individually, connected in series or in any array, and can be stacked up to 4 units high (with center support pipe).



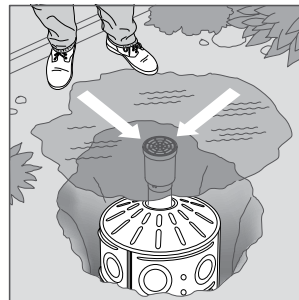
Applications



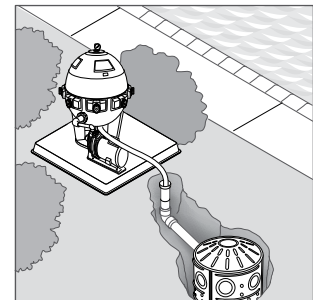
For gutters and downspouts



Install with sump pumps



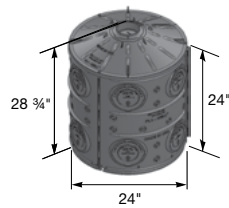
Eliminates puddles



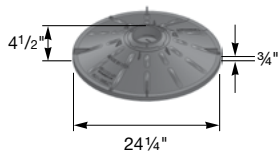
Backwash tank

FLO-WELL® ENGINEERED DRY WELL

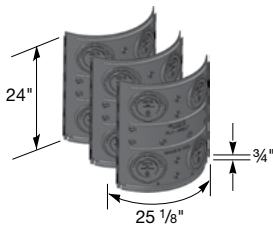
DRAINAGE



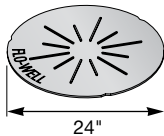
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
FWAS24WH	24" diam. x 28.75"H Flo-Well® Stormwater Leaching System	Black	1	18.96	10FW	NDS #FWAS24WH structural foam polyolefin round drywell system with UV inhibitors. 50 gal. storage capacity.
Includes 3 side panels, 1 top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



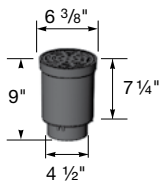
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
FWAS24CWH	24" diam. Flo-Well® Cover	Black	2	5.92	10FW	Structural foam polyolefin round drywell system cover with UV inhibitors. 24-1/4" dia., 4-1/2" height, 3/4" outer lip, 4.5" center knockout fits NDS #FWSD69, std pipe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



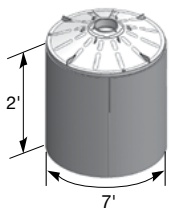
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
FWSPS3WH	Flo-Well® Side Panels/Extension Only	Black	1	4.35	10FW	Structural foam polyolefin side panels with UV inhibitors with 22 1-1/2" knockout leaching ports and 4 4.5" knockout inlet/outlet ports per panel. 0.75" lip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



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
FWBP24	24" diam. Flo-Well® Bottom	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.
Fits #FWAS24. (Not included in #FWAS24 kit)						



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
FWSD69	4" Sch. 40 Surface Drain Inlet with Grate	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.
Fits #FWAS24 and #FWAS24C. ADA Compliant.						



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® Drywell System. Non-woven fabric. Weight 1 oz. Mullen burst 175 psi. 200 GPM flow-through.
Use with #FWAS24.						

CATCH BASINS



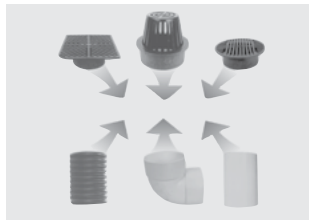
NDS catch basins and grates collect surface water while minimizing the amount of debris entering the system

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

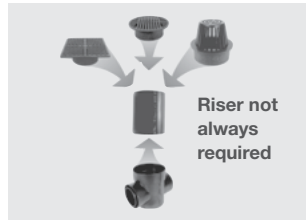
DRAINAGE

NDS Drainage Solutions

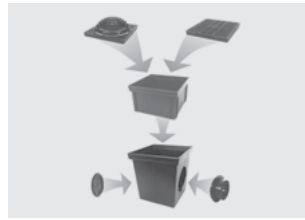
NDS offers a complete line of catch basins and grates for residential and commercial stormwater management solutions. NDS catch basins have sump areas that collect debris and prevent clogging of the pipeline, and grates are available in a variety of patterns and colors to blend in with surrounding surfaces. 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.



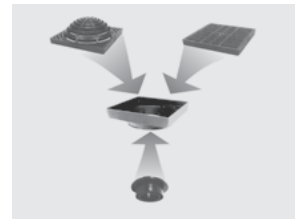
Small Grates



Spee-D® Basin



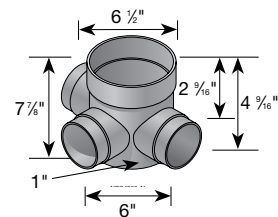
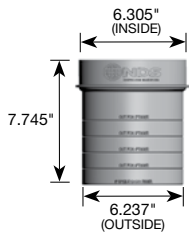
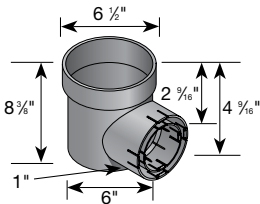
Large Catch Basin



Adapter

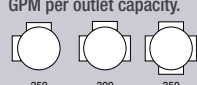
Spee-D® Basins

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 with locking outlet. 68 GPM per outlet capacity.
101ATBLKIT	Spee-D Basin with 6" Black Atrium Grate	Black Grate	8	n/a	10ND	
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	Kits contain 1-outlet Spee-D Basin & Grate as described.
Spee-D Basins and kits fit 3" or 4" Sewer & Drain Pipe, 3" or 4" Corrugated Pipe, 4" Sch. 40 and 3" & 4" Triple Wall Pipe. Use new Spee-D Riser or 6" Sewer and Drain Pipe as a riser for all 6" round catch basins. Use waterproof silicone to make water-tight connections. Locking Outlet snaps on to most 3" and 4" corrugated pipe.						

Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
101R	Spee-D Basin Riser	Black	12	1.07	10ND	6" Riser for Spee-D Basin. Styrene.
Use with any Spee-D Basin to add from 2" to 6" to top of basin. Can be cut to size and has guidelines in 1" increments. Compatible with all grates that fit Spee-D Basin.						

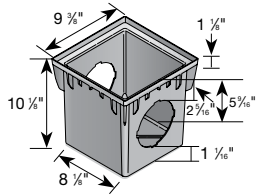
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
250	2 - 3" and 4" 90° Outlets	Black	12	1.64	10ND	6" styrene catch basin with locking outlet. 83 GPM per outlet capacity.
300	3 - 3" and 4" Outlets	Black	12	1.82	10ND	
350	3" and 4" Outlets	Black	12	2.00	10ND	
Fit 3" or 4" Sewer & Drain Pipe, 3" or 4" Corrugated Pipe, 4" Sch. 40 and 3" & 4" Triple Wall Pipe. Use 6" Sewer and Drain Pipe as a riser for all 6" round catch basins. Use waterproof silicone to make water-tight connections.						

CATCH BASINS

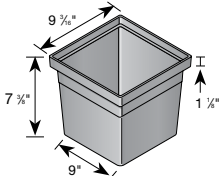
9" Catch Basin Series



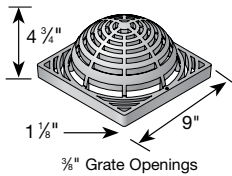
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
900FF	9" Catch Basin Filter	Blue Frame/ Black Bag	8	0.06	10ND	Polypropylene Frame Fabric is non-woven geotextile 956 PM/SF.
Compatible with these basins: 900, 900-4 and 916 NDS Catch Basins, Risers and Kits						



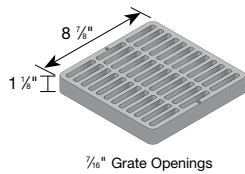
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
900BLKIT	9" x 9" Catch Basin Kit	Black Grate	4	4.90	10ND	9" x 9" tapered Catch Basin. Polypropylene.
900GRKIT	9" x 9" Catch Basin Kit	Green Grate	4	4.90	10ND	
900KITDISP	9" x 9" Catch Basin Kit	Black Grate	8	39.2	10ND	Kits include 2-opening Catch Basin, Grate, Screws, 2 Outlets and 1 Plug.
900	9" x 9" Catch Basin 2-opening	Black	4	2.18	10ND	
900-4	9" x 9" Catch Basin 4-opening	Black	4	2.00	10ND	
Requires either #1206, #1242, #1243, #1245 or #1266 Universal Outlet to connect pipe to basin. (see page 35)						



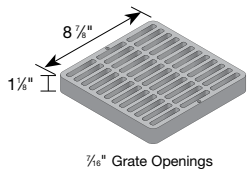
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
916	9" x 9" Catch Basin Riser	Black	4	1.75	10ND	6" Riser for 9" x 9" Catch Basin. Styrene.
Use with 9" x 9" Catch Basin Series. Stacks on top of 9" catch basins to add up to 6" to top of basin. Can be cut to size.						



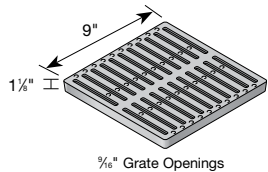
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
981	9" x 9" Atrium Grate	Black	6	0.87	10ND	9" Structural Foam Polyolefin Dome Atrium Grate with UV inhibitor.
991	9" x 9" Atrium Grate	Green	6	0.87	10ND	Open surface area 31.50 square inches. 96.36 GPM.
Use with 9" x 9"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



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	
Use with 9" x 9" Catch Basin Series. NDS #980, 990, 999, 999S: Class A Load Rated. ADA Compliant. NDS #930B: Class B Load Rated. (see page 79). ADA Compliant.						



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
930B	9" Square Brass Grate	Brass	1	5.11	15BR	Open surface area 34.00 square inches. 104.01 GPM. Includes SS Screws.
(see page 79). ADA Compliant.						

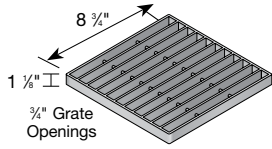


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
913	9" Square Ductile Iron Grate	Black	4	7.89	10ND	9" Square Heavy-Duty Ductile Iron Grate. Open surface area 21.70 square inches. 66.38 GPM.
Use with 9" x 9" Catch Basin Series. (see page 79)						

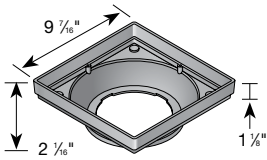
CATCH BASINS

9" Catch Basin Series (continued)

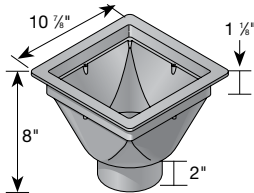
DRAINAGE



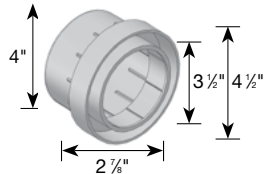
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
915	9" Square Galvanized Steel Grate	Galvanized Steel	4	3.80	10ND	9" Square Heavy-Duty Galvanized Steel Bar Grate. Open surface area 61.94 square inches. 189.48 GPM.
	Use with 9" x 9" Catch Basin Series. (see page 79)					



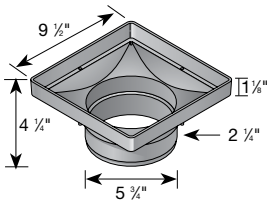
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
930	9" x 9" Low-Profile Adapter	Black	8	0.75	10ND	9" x 9" Low-Profile Adapter. Styrene.
930ATBLKIT	9" x 9" Low-Profile Adapter with Black Atrium Grate and 3" & 4" Universal Locking Outlet	Black Grate	8	n/a	10ND	Kits contain Low-Profile Adapter, 3" & 4" Universal Locking Outlet and Grate as described.
930GRKIT	9" x 9" Low-Profile Adapter with Flat Green Grate and 3" & 4" Universal Locking Outlet	Green Grate	8	n/a	10ND	
Adapter alone requires #1242, #1243, #1245, #1266 or #1889 Universal Outlets to connect to 3", 4", 6" or 8" Sewer and Drain or Corrugated Pipes (see page 35). Kits contain #1243 outlet.						



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 Housing Spigot Adapter. Styrene.
Fits 4" Corrugated Pipe. 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.						



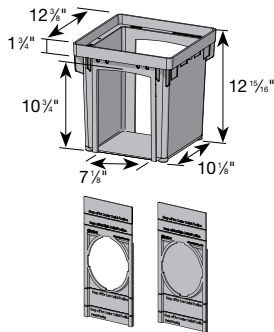
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
932	9" x 9" Low-Profile Housing Adapter	Black	8	1.13	10ND	NDS #932, 9" x 9" Square Low-Profile Housing Adapter with 6" Outlet. Styrene.
Fits 6" Spee-D® Basin and 6" Sewer and Drain Pipe & Fittings.						

CATCH BASINS

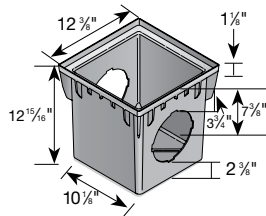
12" Catch Basin Series



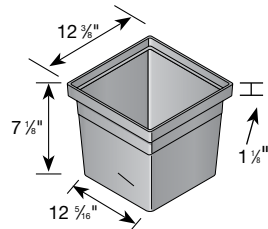
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1200FF	12" Catch Basin Filter	Blue Frame/Black Bag	8	0.10	10ND	Polypropylene Frame Fabric is non-woven geotextile 956 PM/SF.
Compatible with these basins: 1200, 1200NGB, 1203, 1204, 1216, 1217, 1225 NDS Catch Basins & Kits.						



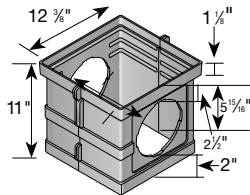
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1200NGBKIT	12" x 12" Catch Basin, 2 Open Slides	Black	4	4.65	10ND	Adjustable Outlet Catch Basin. Sides adjust to 3 different outlet elevations. Polypropylene basin and styrene sides.
1200NGB	12" x 12" Catch Basin	Black	4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



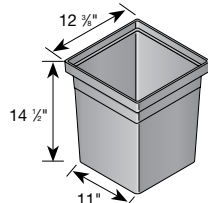
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1200BLKIT	12" x 12" Catch Basin, 2 Open Sides	Black Grate	4	7.59	10ND	12" x 12" Tapered Catch Basin. Polypropylene. Kits include 2-opening Catch Basin, Grate, 2 Outlets and 1 Plug. DISP includes display box.
1200GRKIT	12" x 12" Catch Basin, 2 Open Sides	Green Grate	4	7.59	10ND	
1200KITDISP	12" x 12" Catch Basin, 2 Open Sides	Black Grate	8	7.59	10ND	
1200DGBLKITWH	12" Basin with Wave Decorative Grate	Black Grate	4	7.59	10ND	
1200DGGKITWH	12" Basin with Botanical Decorative Grate	Green Grate	4	7.59	10ND	
1200	12" x 12" Catch Basin, 2 Openings	Black	4	4.25	10ND	Requires either #1206, #1242, #1243, #1245, #1266 or #1889 Universal Outlet to connect pipe to basin (see page 35). Bottom cutout can be removed.
1203	12" x 12" Catch Basin, 3 Openings	Black	4	3.75	10ND	
1204	12" x 12" Catch Basin, 4 Openings	Black	4	3.75	10ND	



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.						



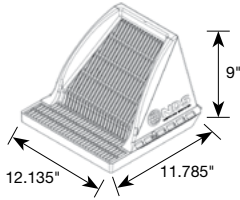
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1225	12" x 12" Sump Box	Black	4	6.75	10ND	One-piece 12" Sump Box. Styrene.
Use with 12" x 12" Grate or #1220 Valve Box Cover.						

DRAINAGE

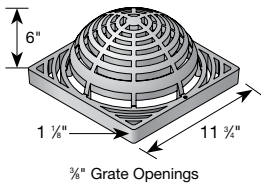
CATCH BASINS

12" Catch Basin Series (continued)

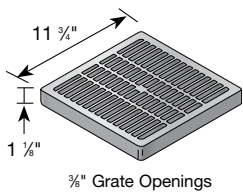
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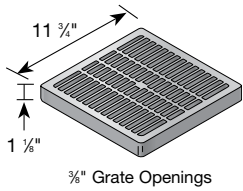
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1200DSG	12" x 12" Downspout Grate	Black	8	n/a	10ND	12" x 12" Downspout Grate. Structural Foam Polyolefin with UV inhibitor.
Receives downspouts from 2" to 6" round or square. Fits all NDS 12" square Catch Basins, Risers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



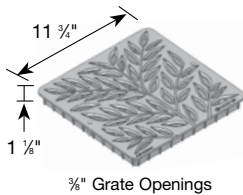
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1280	12" x 12" Atrium Grate	Green	8	1.74	10ND	12" Structural Foam Polyolefin Dome Atrium Grate with UV inhibitor. Open surface area 50.60 square inches. 154.79 GPM.
1290	12" x 12" Atrium Grate	Black	8	1.74	10ND	
Use with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



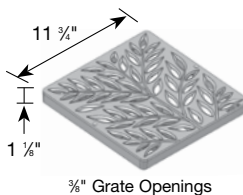
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1210	12" x 12" Square Grate	Gray	8	2.33	10ND	12" Square Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 50.76 square inches. 155.28 GPM.
1211	12" x 12" Square Grate	Black	8	2.33	10ND	
1212	12" x 12" 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 79). ADA Compliant.						




Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1230B	12" Square Brass Grate	Brass	1	9.24	15BR	Open surface area 42.87 square inches. 131.14 GPM. Includes SS Screws.
(see page 79). ADA Compliant.						



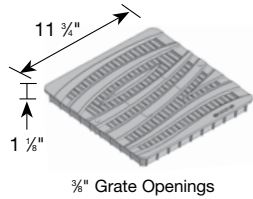
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1218S	12" x 12" Square Botanical Grate	Sand	8	3.27	10ND	12" Square Structural Foam Polyolefin Botanical Grate with UV inhibitor. Open surface area 24.44 square inches. 74.77 GPM. Class B load rated.
1218GR	12" x 12" Square Botanical Grate	Green	8	3.27	10ND	
1218GY	12" x 12" Square Botanical Grate	Gray	8	3.27	10ND	
1218	12" x 12" Square Botanical Grate	Black	8	3.27	10ND	
839	Stainless Steel Screws, FH #6 x 1-3/4"	Metal	40	n/a	10ND	
 (see page 79). ADA Compliant.						



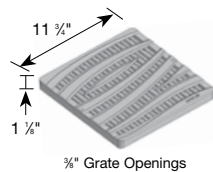
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1218CI	12" x 12" Square Botanical Cast Iron Grate	Raw Iron	1	12.67	10ND	12" Square Cast Iron Botanical Grate. Open surface area 24.44 square inches. 74.77 GPM. Class B load rated.
629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40	n/a	10ND	
 (see page 79). ADA Compliant.						

CATCH BASINS

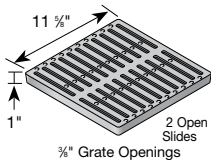
12" Catch Basin Series (continued)




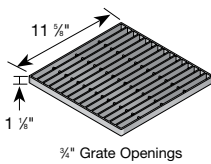
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1224S	12" x 12" Square Wave Grate	Sand	8	2.68	10ND	12" Square Structural Foam Polyolefin Wave Grate with UV inhibitor. Open surface area 25.67 square inches. 78.53 GPM. Class B load rated.
1224GR	12" x 12" Square Wave Grate	Green	8	2.68	10ND	
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 79). ADA Compliant.						



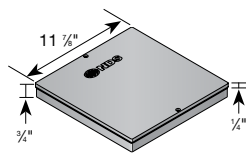
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1224CI	12" x 12" Square Wave Cast Iron Grate	Raw Iron	1	13.90	10ND	12" Square Cast Iron Wave Grate. Open surface area 25.60 square inches. 78.31 GPM. Class B load rated.
629	Stainless Steel Screws, FH #20 x 1-1/2"	Metal	40	n/a	10ND	
 (see page 79). ADA Compliant/Heel-proof.						



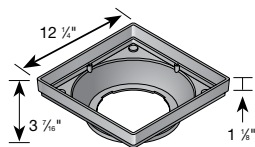
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1213	12" x 12" Square Ductile Iron Grate	Black	1	15.30	10ND	12" Square Heavy-Duty Ductile Iron Grate. Open surface area 37.20 square inches. 113.80 GPM.
 Use with 12" x 12" Catch Basin Series. (see page 79). ADA Compliant.						



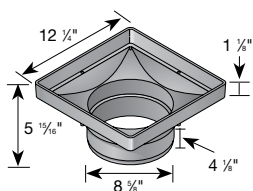
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1215	12" x 12" Square Galvanized Steel Grate	Galvanized Steel	1	5.85	10ND	12" Square Heavy-Duty Galvanized Steel Bar Grate. Open surface area 113.78 square inches. 348.07 GPM.
 Use with 12" x 12" Catch Basin Series. (see page 79)						



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 Valve 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 Adapter. Styrene.
1230ATBLKIT	12" x 12" Low-Profile Adapter with Black Atrium Grate and 3" & 4" Universal Locking Outlet	Black Grate	8	n/a	10ND	
1230GRKIT	12" x 12" Low-Profile Adapter with Flat Green Grate and 3" & 4" Universal Locking Outlet	Green Grate	8	n/a	10ND	Kits contain Low-Profile Adapter, 3" & 4" Universal Locking Outlet and Grate as described.
Adapter alone requires #1242, #1243, #1245, #1266 or #1889 Universal Outlets to connect to 3", 4", 6" or 8" Sewer and Drain or Corrugated Pipes (see page 35). Kits contain #1243 Outlet.						

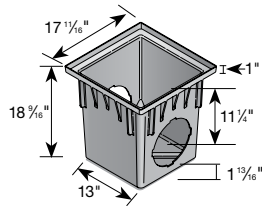


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1221	12" x 12" Square, Low-Profile Adapter – Fits 8" Sewer & Drain Pipe	Black	12	1.92	10ND	12" x 12" Low-Profile Adapter. Styrene.
1222	12" x 12" Square, Low-Profile Spigot Adapter – Fits 8" Corrugated Pipe	Black	12	1.92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

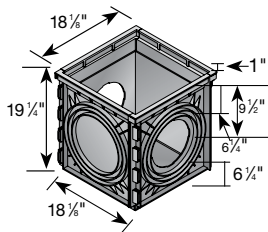
CATCH BASINS

18" Catch Basin Series

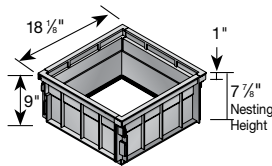
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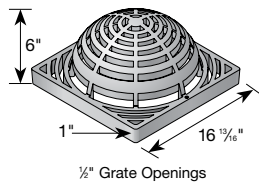
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1882	18" One-Piece Catch Basin 2 Openings	Black	1	10.00	10ND	18"x18" One-Piece Tapered Catch Basin. Structural Foam Polyolefin.
1882BLKIT	18" Catch Basin Kit with Black Plastic Grate, Outlet Adapters for 6" & 8" Pipe, Basin Plug & Outlet Reducer Ring	Black/Black		21.00	10ND	
1882GRKIT	18" Catch Basin Kit with Green Plastic Grate, Outlet Adapters for 6" & 8" Pipe, Basin Plug & Outlet Reducer Ring	Black/Green	1	21.00	10ND	
1884	18" One-Piece Catch Basin 4 Openings	Black	1	9.65	10ND	
Requires either #1206, #1242, #1243, #1245, #1266, #1888 or #1889 Universal Outlet to connect pipe to basin. Includes 2 or 4 #1890 Reducer Rings.						



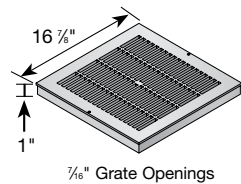
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1800	18" x 18" Expandable Catch Basin 2 Openings*	Black	1	16.00	10ND	18" x 18" Modular Catch Basin with Locking Tabs. Styrene.
1804	18" x 18" Expandable Catch Basin 4 Openings*	Black	1	16.00	10ND	
Assembly Required. #1800 includes: 2 #1822, 2 #1820, 1 #1828. #1804 includes: 4 #1822, 1 #1828. Use #1800 and #1804 with #1206, #1243, #1245, #1266 or #1888 Universal Outlets to connect pipes to basin. Includes 2 or 4 #1890 Reducer Rings. (Note: Use Silicone to seal joints.)						



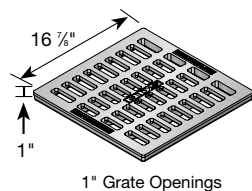
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1816	8" Riser for 18" Catch Basin	Black	1	6.00	10ND	8" Riser for 18" x 18" Catch Basin. Styrene.
Riser package includes 4 sides. Use with #1800, #1804, #1882 or #1884.						



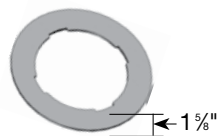
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1881	18" x 18" Atrium Grate	Black	2	6.51	10ND	18" Structural Foam Polyolefin Dome Atrium Grate with UV inhibitor. Open surface area 89.40 square inches. 273.49 GPM.
1891	18" x 18" Atrium Grate	Green	2	6.51	10ND	
Use with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



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 Foam Polyolefin Grate with UV inhibitor. Open surface area 86.31 square inches. 264.03 GPM.
1811	18" x 18" Square Grate	Black	4	7.72	10ND	
1812	18" x 18" Square Grate	Green	4	7.72	10ND	
Use with 18" x 18" Catch Basin Series. (see page 79). ADA Compliant.						



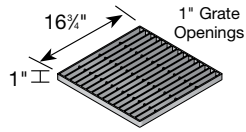
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1813	18" x 18" Cast Iron Square Grate	Black	1	46.00	10ND	18" Square Heavy-Duty Cast Iron Grate. Open surface area 110.70 square inches. 338.65 GPM. H-20 Load Rating.
Use with 18" x 18" Catch Basin Series.						




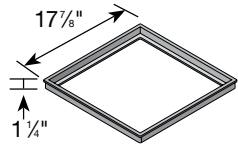
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1890	Universal Outlet Reducer Ring	Black	8	0.33	10ND	Styrene.
Required on #1821 basin side when using 3", 4" or 6" pipe. Required on #1821 basin side when connecting to #1206, #1243, #1245, #1266 or #1889 Universal Outlets.						

CATCH BASINS

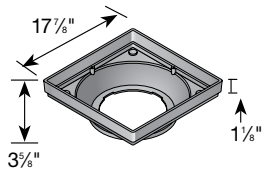
18" Catch Basin Series (continued)



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 Galvanized Steel Bar Grate. Open surface area 239.00 square inches. 731.13 GPM.
	 Use with 18" x 18" Catch Basin Series. (see page 79)					

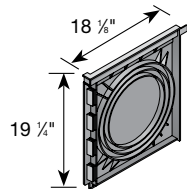


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1840	Frame to adapt 18" x 18" grate to concrete catch basin	Black	4	2.00	10ND	18" x 18" Frame. Styrene.
	Use with 18" x 18" Grates.					

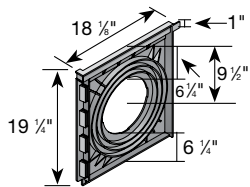


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1830	18" x 18" Low-Profile Adapter	Black	4	4.75	10ND	18" x 18" Low-Profile Adapter. Styrene.
	Includes NDS #1890 Reducer Ring. Requires either an NDS #1243, #1245, #1266 or #1888 Universal Outlet to connect to pipe.					

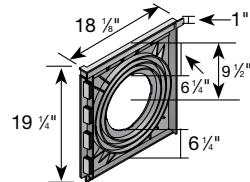
18" Component Parts



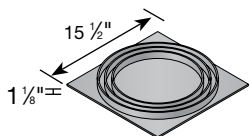
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1820	Basin Side – No Opening	Black	4	4.00	10ND	18" x 18" Catch Basin Side, No Opening. Styrene.



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, 8" Opening. Styrene.
	Reducer Ring not included. Requires #1888 Universal Outlet to fit 8" Corrugated Pipe or Sewer and Drain Pipe or #1266 Universal Outlets. #1889 Universal Outlet does not fit this #1821 Basin Side.					



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.					

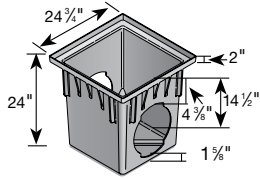


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1828	Basin Bottom	Black	4	2.50	10ND	18" x 18" Catch Basin Bottom. Styrene.

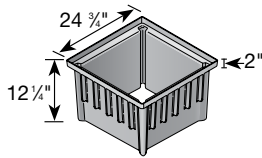
CATCH BASINS

24" Catch Basin Series

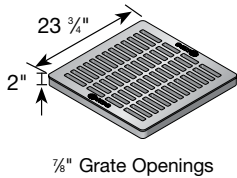
DRAINAGE



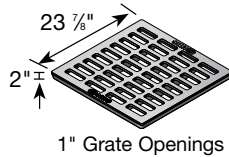
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
2400	24" x 24" Catch Basin, 2 Openings	Black	1	18.00	10ND	24" x 24" One-Piece Tapered Catch Basin. HDPE with Structural Foam.
2400BLKIT	24" Catch Basin Kit with Black Plastic Grate, Outlet Adapters for 8", 10" & 12" Pipe, Basin Plug, Outlet Reducer Rings	Black/Black		50.00	10ND	
2400GRKIT	24" Catch Basin Kit with Green Plastic Grate, Outlet Adapters for 8", 10" & 12" Pipe, Basin Plug, Outlet Reducer Rings	Black/Green	1	50.00	10ND	
2404	24" x 24" Catch Basin, 4 Openings	Black	1	15.00	10ND	
#2400 & #2404 Require 2 or 4 #2410 Universal Outlets.						



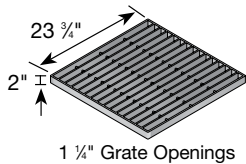
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
2418	24" x 24" Catch Basin Extension (No Bottom)	Black	1	14.60	10ND	8" Extension for 24" x 24" Catch Basin. HDPE with Structural Foam.
Use with 24" x 24" Catch Basin Series.						



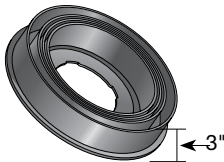
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
2411	24" x 24" Square Grate	Black	1	19.75	10ND	24" Square HDPE with Structural Foam Grate with UV inhibitor. Open surface area 231.69 square inches. 708.77 GPM.
2412	24" x 24" Square Grate	Green	1	19.75	10ND	
Use with 24" x 24" Catch Basin Series. (see page 79)						



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 Cast Iron Grate. Open surface area 197.00 square inches. 602.65 GPM. Structural Foam.
Use with 24" x 24" Catch Basin Series. (see page 79)						



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 Galvanized Steel Bar Grate. Open surface area 422.45 square inches. 1292.33 GPM. Structural Foam.
Use with 24" x 24" Catch Basin Series. (see page 79)						

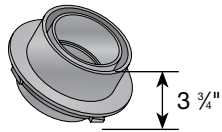


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
2410	10" & 12" Universal Adapter	Black	1	4.20	10ND	10"/12" Universal Adapter. HDPE.
Includes #1890 (comes pre-inserted). Fits 10" and 12" Sewer and Drain Pipe; 10" and 12" Dual Wall Corrugated Pipe; 12" Single Wall Corrugated 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.						

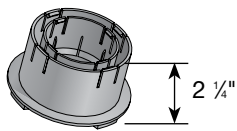
CATCH BASINS

Catch Basin Universal Outlets

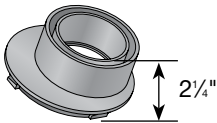
Universal Outlets and Adapters allow you to quickly connect to 3"-12" drain pipes to accommodate the needs of any job. They offer greater flexibility during install saving time and money.



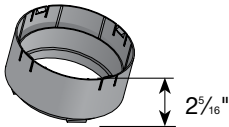
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1242	3" & 4" Universal Outlet w/4" Spigot	Black	20	0.74	10ND	3" & 4" Universal Outlet. Styrene.
Fits 3" & 4" Corrugated Pipe, 3" & 4" Sewer and Drain Pipe, 4" Sch. 40 Pipe, 4" Triple Wall Pipe. Allows for adjusting inlet height. Use with 9", 12", 18" and 24" Catch Basin Series. Use with 24" Catch Basin also requires #2410 Adapter.						



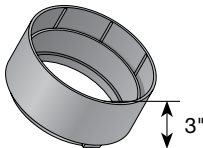
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1243	3" & 4" Universal Locking Outlet*	Black	20	0.60	10ND	3" & 4" Patented Universal Locking Outlet. Styrene.
Fits 3" & 4" Corrugated Pipe, 3" & 4" Sewer and Drain Pipe, 4" Sch. 40 Pipe and 3" & 4" Triple Wall Pipe. Use with 9", 12", 18" and 24" Catch Basin Series and #930, #1230, #1830 and #2410 Adapters. Use with 24" Catch Basin also requires #2410 Adapter.						
*New Locking Outlet snaps on to most 3" and 4" corrugated pipe.						



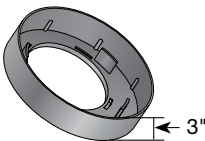
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1245	3" & 4" Offset Universal Outlet	Black	20	0.50	10ND	3" & 4" Offset Universal Outlet. Styrene.
Fits 3" & 4" Corrugated Pipe, 3" & 4" Sewer and Drain Pipe, 4" Sch. 40 Pipe, 4" Triple Wall Pipe. Allows for adjusting inlet height. Use with 9", 12", 18" and 24" Catch Basin Series. Use with 24" Catch Basin also requires #2410 Adapter.						



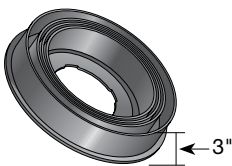
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1266	6" Universal Locking Outlet*	Black	20	0.55	10ND	6" Universal Locking Outlet. Styrene.
Fits 6" Sewer and Drain Pipe, 6" Corrugated Pipe. Use with 9", 12", 18" and 24" Catch Basin Series and #930, #1230 and #1830 Low-Profile Adapters. Use with 24" Catch Basin also requires #2410 Adapter.						
*New, improved Locking Outlet snaps on to most 6" corrugated pipe.						



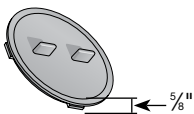
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1888	8" Universal Outlet	Black	8	1.05	10ND	8" Universal Outlet. Styrene.
Fits 8" Sewer and Drain Pipe, 8" Corrugated Pipe. Use with 18" and 24" Catch Basin Series. Use with 24" Catch Basin also requires #2410 Adapter.						



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.
Fits 8" Sewer and Drain Pipe, 8" Corrugated Pipe. Use with 12" and most 18" Catch Basin Series (except 1800 and 1804).						

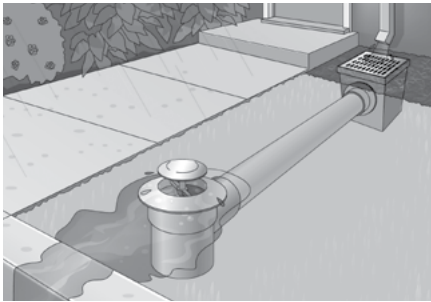


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
2410	10" & 12" Universal Adapter	Black	1	4.20	10ND	10"/12" Universal Adapter. HDPE.
Includes #1890 (comes pre-inserted). Fits 10" and 12" Sewer and Drain Pipe; 10" and 12" Dual Wall Corrugated Pipe; 12" Single Wall Corrugated 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.

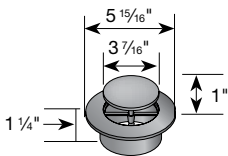
POP-UP DRAINAGE EMITTERS



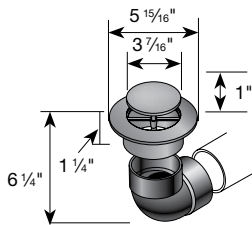
The Pop-up Drainage Emitter is an easy, safe and efficient solution that allows water to be diverted and released to water-safe areas away from structures, erosion-prone landscapes and poor drainage areas.

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.

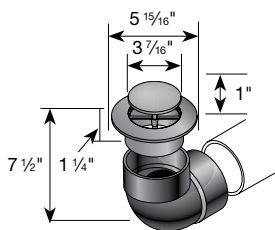
3" & 4" Pop-up Drainage Emitter



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



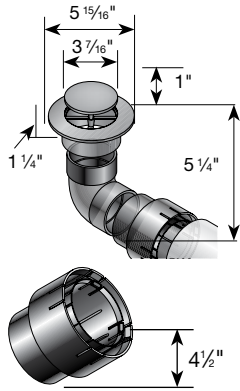
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
321	Emitter with 3" Elbow Fits 3" Sewer and Drain Pipe. Ideal for discharging excess water from stormwater management system. Spring automatically retracts.	Green	25	0.60	10ND	NDS #420 polyolefin spring-loaded Pop-up Drainage 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.



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
421	Emitter with 4" Elbow Fits 4" Sewer and Drain Pipe. Ideal for discharging excess water from stormwater management system. Spring automatically retracts.	Green	20	0.85	10ND	NDS #420 polyolefin spring-loaded 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

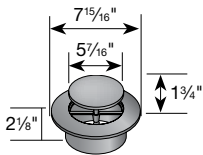
3" & 4" Pop-up Drainage Emitter (continued)



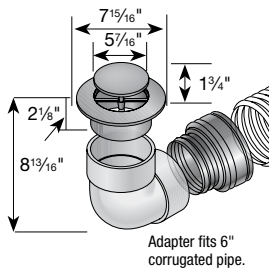
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
430	Pop-up Drainage Emitter with 3" Elbow and Universal Adapter	Green	20	1.00	10ND	NDS #420 polyolefin spring-loaded Pop-up Drainage Emitter with UV inhibitor, 3" styrene 90 degree elbow with 1/4" drain hole and universal pipe adapter. 40 GPM. 0.04 psi or 1" of head to raise top.
1241	3" & 4" Universal Adapter w/4" Spigot	Black	20	0.70	10ND	3" & 4" Patented Universal Adapter. Styrene.

DRAINAGE

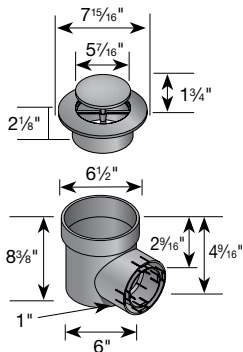
6" Pop-up Drainage Emitter



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 Drainage Emitter with UV inhibitor. 88 GPM capacity. 0.04 psi or 1" of head to raise top.



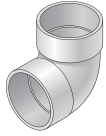
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
624	6" Pop-up Emitter with Elbow and Corrugated Pipe Adapter	Green	10	3.45	10ND	NDS #620 polyolefin spring-loaded Pop-up Drainage Emitter with UV inhibitor, 6" styrene 90 degree elbow with 1/4" drain hole and corrugated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

COMMON DRAINAGE FITTINGS

90 Degree PVC Elbow



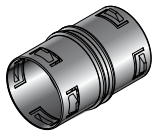
	Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
PVC	3P02	3" PVC 90 Degree Elbow (HUB x HUB)	White	40	0.40	30PV
	4P02	4" PVC 90 Degree Elbow (HUB x HUB)	White	25	0.68	30PV
	6P02	6" PVC 90 Degree Elbow (HUB x HUB)	White	12	3.00	30PV

Corrugated Adapter



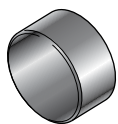
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
351	3" Polyethylene Corrugated Adapter (CORR HUB x S&D SPT or HUB)	Black	50	0.10	30ST
451	4" Polyethylene Corrugated Adapter (CORR HUB x S&D SPT or HUB)	Black	25	0.20	30ST
651	6" Polyethylene Corrugated Adapter (CORR HUB x S&D SPT or HUB)	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
6C06	6" Corrugated Endcap	Black	15	0.50	30PE

Note: See Fittings section (pages 170-189) for additional fitting options.

GRATES: STANDARD, DECORATIVE & METAL



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

DRAINAGE

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

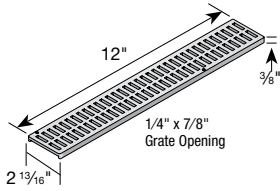
Materials & Standards


- 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

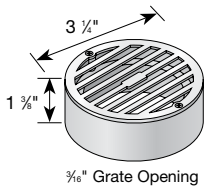
GRATES: STANDARD, DECORATIVE & METAL

Brass & Chrome Grates

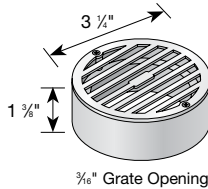
DRAINAGE




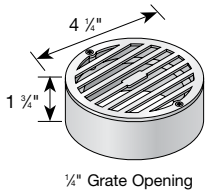
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
552B	1 ft. Brass Channel Grate	Satin Brass	12	1.21	25PF	1 foot Mini Channel Solid Brass Grate with brass screws. Open surface area 9.20 square inches per foot. 28.14 GPM per foot.
553PB	1 ft. Brass Channel Grate	Polished Brass	12	1.21	25PF	
 Fits #500 and #550 Mini Channels. (see pages 50). (see page 79). ADA Compliant/Heel-proof.						



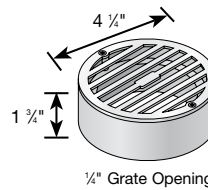
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
909B	3" Round Brass Grate w/PVC Collar	Satin Brass	20	0.40	15BR	3" Round Solid Brass Grate and brass screws with PVC collar. Open surface area 2.68 square inches. 8.20 GPM.
905PB	3" Round Brass Grate w/PVC Collar	Polished Brass	20	0.40	15BR	
 Fits 2" SCH-40 Pipe and 3" Sewer and Drain Fittings. (see page 79). ADA Compliant/Heel-proof.						



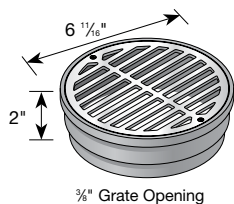
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
915SC	3" Round Chrome Grate w/PVC Collar	Satin Chrome	20	0.40	15BR	3" Round Solid Chrome Grate and screws with PVC collar. Open surface area 2.68 square inches. 8.20 GPM.
907PC	3" Round Chrome Grate w/PVC Collar	Polished Chrome	20	0.40	15BR	
 Fits 3" Sewer and Drain Fittings and 2" SCH-40 Pipe. (see page 79). ADA Compliant/Heel-proof.						




Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
910B	4" Round Brass Grate w/PVC Collar	Satin Brass	20	0.64	15BR	4" Round Solid Brass Grate and brass screws with PVC collar. Open surface area 5.25 square inches. 16.06 GPM.
906PB	4" Round Brass Grate w/PVC Collar	Polished Brass	20	0.64	15BR	
 Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fittings. (see page 79). ADA Compliant/Heel-proof.						



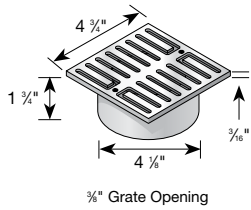
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
917SC	4" Round Chrome Grate w/PVC Collar	Satin Chrome	20	0.66	15BR	4" Round Chrome Grate and screws with PVC collar. Open surface area 5.25 square inches. 16.06 GPM.
908PC	4" Round Chrome Grate w/PVC Collar	Polished Chrome	20	0.66	15BR	
 Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fittings. (see page 79). ADA Compliant/Heel-proof.						




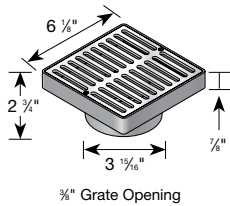
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
918B	6" Round Brass Grate w/Styrene Collar	Satin Brass	8	1.38	15BR	6" Round Solid Brass Grate and brass screws with styrene collar. Open surface area 13.10 square inches. 40.07 GPM.
919PB	6" Round Brass Grate w/Styrene Collar	Polished Brass	8	1.38	15BR	
 Fits Spee-D® Basin, 6" Sewer & Drain Fittings. (see page 79). ADA Compliant.						


GRATES: STANDARD, DECORATIVE & METAL

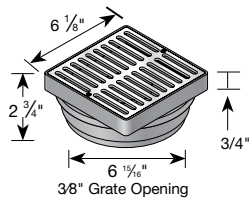
Brass & Chrome Grates (continued)



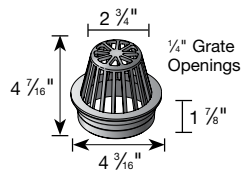
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
913B	5" Square Brass Grate w/PVC Collar	Satin Brass	10	1.21	15BR	5" Square Solid Brass Grate with brass screws and PVC collar. Open surface area 2.5 square inches. 7.65 GPM.
914PB	5" Square Brass Grate w/PVC Collar	Polished Brass	10	1.21	15BR	
 Fits 4" Sewer and Drain Fittings, 3" Sewer and Drain Pipe, and 3" Triple Wall Pipe. (see page 79). ADA Compliant.						



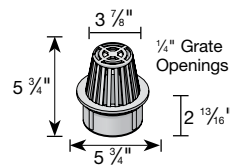
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
920B	6" Square Brass Grate w/Styrene Adapter	Satin Brass	8	1.65	15BR	6" Square Solid Brass Grate with brass-colored styrene low-profile adapter and brass screws. Open surface area 11.60 square inches. 35.49 GPM.
923PB	6" Square Brass Grate w/Styrene Adapter	Polished Brass	8	1.65	15BR	
 Fits 3" or 4" Sewer and Drain Pipe or Fittings, 3" or 4" Corrugated Pipe, and 3" or 4" Triple Wall Pipe. (see page 79). ADA Compliant.						



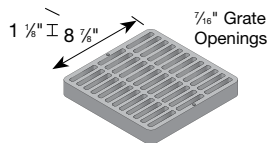
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
921B	6" Square Brass Grate w/Styrene Adapter	Satin Brass	8	1.71	15BR	6" Square Solid Brass Grate with brass-colored styrene low-profile adapter and brass screws. Open surface area 11.60 square inches. 35.49 GPM.
922PB	6" Square Brass Grate w/Styrene Adapter	Polished Brass	8	1.70	15BR	
 Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fittings. (see page 79). ADA Compliant.						



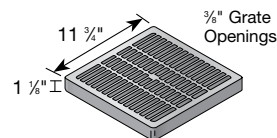
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
78B	4" Atrium Brass Grate	Brass	1	2.00	15BR	Open surface area 10.20 square inches. 31.20 GPM.
 Fits 4" Sewer and Drain Pipe & Fittings.						



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



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
930B	9" Square Brass Grate	Brass	1	5.11	15BR	Open surface area 34.00 square inches. 104.01 GPM. Includes SS Screws.
 (see page 79). ADA Compliant.						



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
1230B	12" Square Brass Grate	Brass	1	9.24	15BR	Open surface area 42.87 square inches. 131.14 GPM. Includes SS Screws.
 (see page 79). ADA Compliant.						

GRATES: STANDARD, DECORATIVE & METAL

Decorative Grates

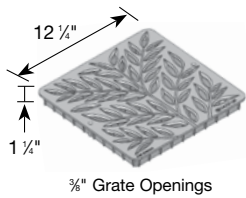
Designed to meet today's demand for products that are as beautiful as they are functional. NDS decorative grates feature consumer-tested designs and offer a range of colors and materials ideal for any application or setting.



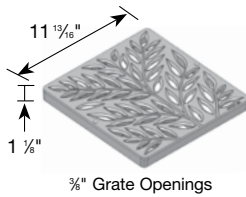
DRAINAGE

Catch Basin Plastic & Metal Decorative Grates

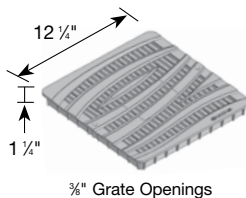
Fits 12" Catch Basins. Available in Botanical and Wave designs, in multiple colors or in cast iron. Plastic grates are "T-top" and overlap basin edge. Iron grates sit flush.



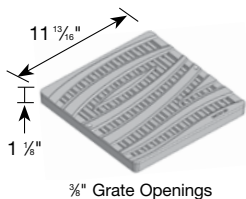
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1218S	12" x 12" Square Botanical Grate	Sand	8	3.27	10ND	12" Square Structural Foam Polyolefin Botanical Grate with UV inhibitor. Open surface area 24.44 square inches. 74.77 GPM. Class B load rated.
1218GR	12" x 12" Square Botanical Grate	Green	8	3.27	10ND	
1218GY	12" x 12" Square Botanical Grate	Gray	8	3.27	10ND	
1218	12" x 12" Square Botanical Grate	Black	8	3.27	10ND	
839	#6 x 1-3/4 FH Phillips Screw	Metal	40	n/a	10ND	
	Use Screw # 839, FH#6 x 1-3/4". (see page 79). 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 Botanical Grate. Open surface area 24.44 square inches. 74.77 GPM. Class B load rated.
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	
	Use Screw # 629, FH#20 x 1-1/2". (see page 79). ADA Compliant.					



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 Foam Polyolefin Wave Grate with UV inhibitor. Open surface area 25.67 square inches. 78.53 GPM. Class B load rated.
1224GR	12" x 12" Square Wave Grate	Green	8	2.68	10ND	
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	#6 x 1-3/4 FH Phillips Screw	Metal	40	n/a	10ND	
	Use Screw # 839, FH#6 x 1-3/4". (see page 79). ADA Compliant.					

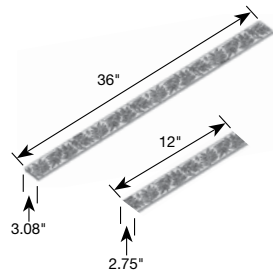


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1224CI	12" x 12" Square Wave Cast Iron Grate	Raw Iron	1	13.90	10ND	12" Square Cast Iron Wave Grate. Open surface area 25.60 square inches. 78.31 GPM. Class B load rated.
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	
	Use Screw # 629, FH#20 x 1-1/2". (see page 79). ADA Compliant.					

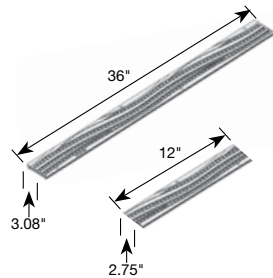
GRATES: STANDARD, DECORATIVE & METAL

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.



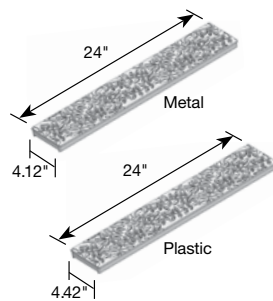
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
846	Stainless Steel Screws, FH #4 x 5/8"	Steel	64	0.10	25PF	3 ft. Structural Foam Polyolefin botanical pattern Channel Grate with UV inhibitor. Open surface area 5.44 square inches per foot. 16.64 GPM per foot.
554S	3' Botanical Channel Grate	Sand	16	0.89	25PF	
554GR	3' Botanical Channel Grate	Green	16	0.89	25PF	
554GY	3' Botanical Channel Grate	Gray	16	0.89	25PF	
554	3' Botanical Channel Grate	Black	16	0.89	25PF	1 ft. Mini Channel botanical Cast Iron Channel Grate. Open surface area 5.39 square inches per foot. 16.49 GPM per foot. Class B load rated.
554CI	1' Botanical Cast Iron Channel Grate	Raw Iron	1	1.82	10ND	
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	
 (see page 79). ADA Compliant.						




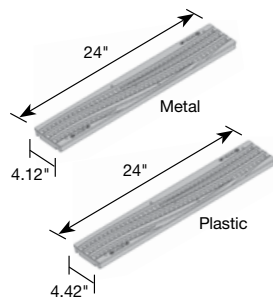
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
846	Stainless Steel Screws, FH #4 x 5/8"	Steel	64	0.10	25PF	3 ft. Structural Foam Polyolefin wave pattern Channel Grate with UV inhibitor. Open surface area 5.73 square inches per foot. 17.54 GPM per foot.
555S	3' Wave Channel Grate	Sand	16	0.88	25PF	
555GR	3' Wave Channel Grate	Green	16	0.88	25PF	
555GY	3' Wave Channel Grate	Gray	16	0.88	25PF	
555	3' Wave Channel Grate	Black	16	0.88	25PF	1 ft. Mini Channel Wave Cast Iron Channel Grate. Open surface area 4.11 square inches per foot. 12.56 GPM per foot. Class B load rated.
555CI	1' Wave Cast Iron Channel Grate	Raw Iron	1	1.30	10ND	
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	
 (see page 79). ADA Compliant.						


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 decorative botanical Channel Grate with UV inhibitor. Open surface area 7.78 square inches per foot. 23.80 GPM per foot.
252S	2' Channel Botanical Grate	Sand	24 ft.	1.74	25PF	
252GR	2' Channel Botanical Grate	Green	24 ft.	1.74	25PF	
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 botanical Channel Grate. Open surface area 8.99 square inches per foot. 27.50 GPM per foot. Class B load rated.
252CI	2' Cast Iron Channel Botanical Grate	Raw Iron	1 ft.	7.06	25PF	
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	
 (see page 79). ADA Compliant.						



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 decorative wave Channel Grate with UV inhibitor. Open surface area 7.78 square inches per foot. 23.80 GPM per foot.
253S	2' Channel Wave Grate	Sand	24 ft.	1.84	25PF	
253GR	2' Channel Wave Grate	Green	24 ft.	1.84	25PF	
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 Channel Grate. Open surface area 7.41 square inches per foot. 22.67 GPM per foot. Class B load rated.
253CI	2' Cast Iron Channel Wave Grate	Raw Iron	2 ft.	7.52	25PF	
629	#20 x 1-1/2 FH Phillips Screw	Metal	40	n/a	10ND	
 (see page 79). ADA Compliant.						

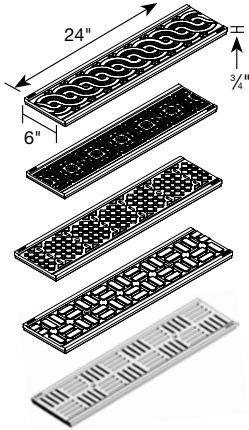
DRAINAGE

GRATES: STANDARD, DECORATIVE & METAL

Dura Slope Metal Decorative Grates

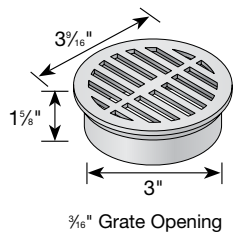
Fits all Dura Slope channels. Available in five designs: Weave, Tile, Brick, Diamond and Slot. Ductile iron material, rated Class D and ADA compliant.

DRAINAGE

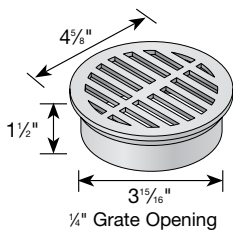


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
DS-601	Weave Pattern	Raw Iron	1	14.50	25DS	Decorative grates are made of ductile iron. Weave: open area 6.75 square inches per foot; 20.65 GPM. Diamond: open area 9.55 square inches per foot; 29.21 GPM. Tile: open area 7.95 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 foot; 51.24 GPM.
DS-602	Diamond Pattern	Raw Iron	1	14.30	25DS	
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	
85400401	DS DUCTL KIARO HP/ADA "B", 2FT	Ductile Iron	120	14.99	25DS	
85400402	DS DUCTL VIA HP/ADA "B", 2FT	Ductile Iron	120	10.36	25DS	
85400403	DS DUCTL VILLE HP/ADA "B", 2FT	Ductile Iron	120	11.68	25DS	
<p>Use with Dura Slope Drains (page 72), Dura Slope Catch Basins (page 74).</p> <p>Decorative grates are made of ductile iron. Uncoated raw iron will develop a rust patina over time. Additional powder-coat colors available: Black (K), White (W), Silver (S), Bronze (Z), Green (G), Blue (B), Orange (O), Gray (Y), Brown (N)</p> <p>MTO 6-7 week lead time.</p> <p>(see page 79). ADA Compliant/Heelproof. Must be used with DS-200H to achieve Class D Load Rating.</p>						

Round Grates



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
14	3" Round Grate	Black	40	0.13	10ND	3" Round Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 2.60 square inches. 7.95 GPM.
15	3" Round Grate	Gray	40	0.13	10ND	
16	3" Round Grate	Green	40	0.13	10ND	
16P	3" Round Grate	Purple	40	0.13	10ND	
16S	3" Round Grate	Sand	40	0.13	10ND	
<p>Fits 3" Sewer and Drain Pipe & Fittings, 3" Corrugated Pipe, and 3" Triple Wall Pipe.</p> <p>(see page 79). ADA Compliant/Heel-proof.</p>						

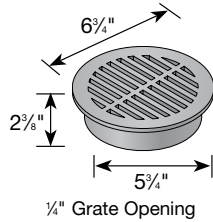


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
11	4" Round Grate	Black	25	0.17	10ND	4" Round Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 3.85 square inches. 11.78 GPM.
12	4" Round Grate	Gray	25	0.17	10ND	
13	4" Round Grate	Green	25	0.17	10ND	
13P	4" Round Grate	Purple	25	0.17	10ND	
13S	4" Round Grate	Sand	25	0.17	10ND	
<p>Fits 4" Sewer and Drain Pipe & Fittings, 4" Corrugated Pipe, and 4" Triple Wall Pipe.</p> <p>(see page 79). ADA Compliant/Heel-proof.</p>						

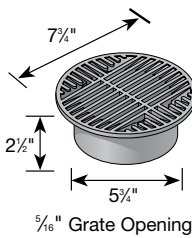
GRATES: STANDARD, DECORATIVE & METAL

Round Grates

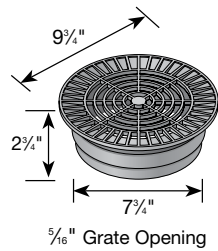
DRAINAGE



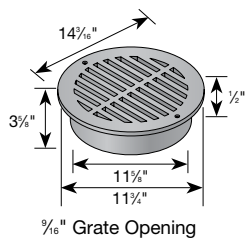
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
40	6" Round Grate	Black	10	0.49	10ND	6" Round Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 9.10 square inches. 27.84 GPM.
50	6" Round Grate	Green	10	0.49	10ND	
60	6" Round Grate	Gray	10	0.49	10ND	
60S	6" Round Grate	Sand	10	0.49	10ND	
Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fittings and 6" Corrugated Pipe. (see page 79). ADA Compliant/Heel-proof.						



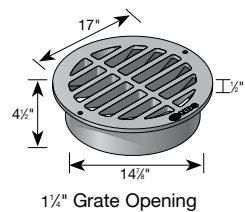
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
10	8" Round Grate	Black	10	0.60	10ND	8" Round Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 11.50 square inches. 35.18 GPM.
20	8" Round Grate	Green	10	0.60	10ND	
30	8" Round Grate	Gray	10	0.60	10ND	
30S	8" Round Grate	Sand	10	0.60	10ND	
Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fittings and 6" Corrugated Pipe. (see page 79). ADA Compliant.						



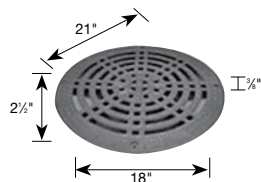
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
1040	10" Round Grate	Black	10	1.01	10ND	10" Round Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 21.57 square inches. 65.99 GPM.
1050	10" Round Grate	Green	10	1.01	10ND	
1060	10" Round Grate	Gray	10	1.01	10ND	
1060S	10" Round Grate	Sand	10	1.01	10ND	
Fits 8" Sewer and Drain Pipe & Fittings, 8" Corrugated Pipe. (see page 79). ADA Compliant.						



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
1240	12" Round Grate	Black	6	2.44	10ND	12" Round Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 46.00 square inches. 140.72 GPM.
1250	12" Round Grate	Green	6	2.44	10ND	
1260	12" Round Grate	Gray	6	2.44	10ND	
Fits 12" Sewer and Drain Pipe, 12" Corrugated Pipe. (see page 79)						



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
1511	15" Round Grate	Black	6	6.89	10ND	15" Round Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 85.60 square inches. 261.86 GPM.
1512	15" Round Grate	Green	6	6.89	10ND	
Fits 15" Sewer and Drain Fittings, 15" Corrugated Pipe. (see page 79)						

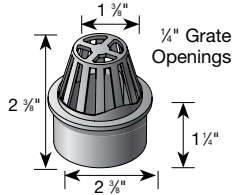


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
1801SDG	18" Round Grate	Green	1	7.50	28ND	Round Polypropylene Grate. Open surface area 75.55 square inches. 231.12 GPM. Includes lag bolts.
Fits 18" Sewer and Drain Fittings, 18" Corrugated Pipe, includes Lag Bolts. (see page 79)						

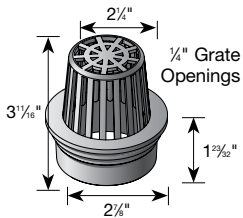
GRATES: STANDARD, DECORATIVE & METAL

DRAINAGE

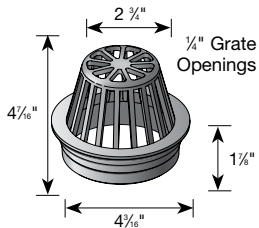
Atrium Grates



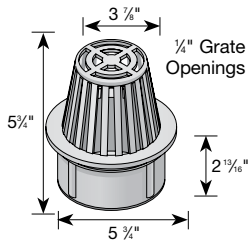
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
270	2" Atrium Grate	Gray	20	0.10	10ND	Flat-Top PVC Atrium Grate with UV inhibitor. Open surface area 4.00 square inches. 12.24 GPM.
Fits 2" Schedule 40 Fittings.						



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



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

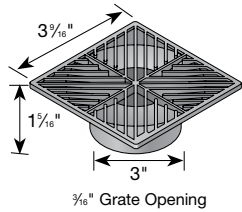



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
80	6" Atrium Grate	Green	10	0.62	10ND	Flat-Top Structural Foam Polyolefin Atrium Grate with UV inhibitor. Open surface area 28.40 square inches. 86.88 GPM.
81	6" Atrium Grate	Gray	10	0.62	10ND	
90	6" Atrium Grate	Black	10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

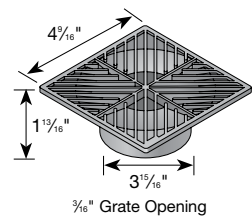
GRATES: STANDARD, DECORATIVE & METAL


Square Grates

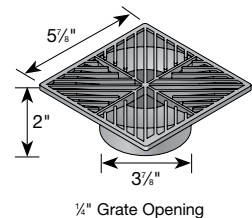
DRAINAGE




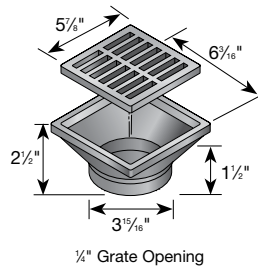
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
1	4" Square Grate	Green	40	0.11	10ND	4" Square Structural Foam Polyolefin Grate with diagonally converging pattern with UV inhibitor. Open surface area 3.45 square inches. 10.55 GPM.
2	4" Square Grate	Black	40	0.11	10ND	
3	4" Square Grate	Gray	40	0.11	10ND	
 Fits 3" Sewer and Drain Pipe & Fittings, 3" Corrugated Pipe, and 3" Triple Wall Pipe. (see page 79). ADA Compliant/Heel-proof.						




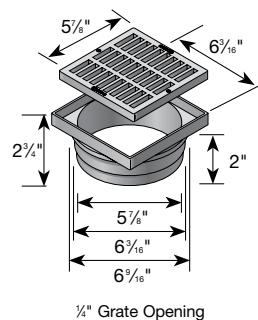
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
7	5" Square Grate	Green	25	0.20	10ND	5" Square Structural Foam Polyolefin Grate with diagonally converging pattern with UV inhibitor. Open surface area 4.25 square inches. 13.00 GPM.
8	5" Square Grate	Black	25	0.20	10ND	
9	5" Square Grate	Gray	25	0.20	10ND	
 Fits 4" Sewer and Drain Pipe & Fittings, 4" Corrugated Pipe, and 4" Triple Wall Pipe. (see page 79). ADA Compliant/Heel-proof.						




Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
4	6" Square Grate	Black	10	0.40	10ND	6" Square Structural Foam Polyolefin Grate with diagonally converging pattern with UV inhibitor. Open surface area 10.40 square inches. 31.81 GPM.
5	6" Square Grate	Green	10	0.40	10ND	
6	6" Square Grate	Gray	10	0.40	10ND	
06S	6" Square Grate	Sand	10	0.40	10ND	
 Fits 3" or 4" Sewer and Drain Pipe, 3" or 4" Corrugated Pipe, and 3" or 4" Triple Wall Pipe. (see page 79). ADA Compliant/Heel-proof.						



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 and Structural Foam Polyolefin Removable Grate with UV inhibitor and stainless steel screws. Open surface area 14.44 square inches. 44.17 GPM.
641	6" x 6" x 4" Square Grate & Adapter	Green	8	0.83	10ND	
642	6" x 6" x 4" Square Grate & Adapter	Gray	8	0.83	10ND	
 Fits 3" or 4" Sewer and Drain Pipe & Fittings, 3" or 4" Corrugated Pipe, and 3" or 4" Triple Wall Pipe. (see page 79). ADA Compliant/Heel-proof.						

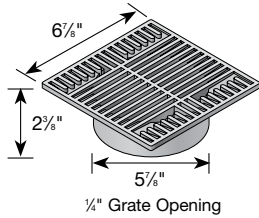


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications
637	6" x 6" x 6" Square Grate & Adapter	Black	8	0.88	10ND	6"x6" Low-Profile Adapter and Structural Foam Polyolefin Removable Grate with UV inhibitor and stainless steel screws. Open surface area 14.44 square inches. 44.17 GPM.
639	6" x 6" x 6" Square Grate & Adapter	Gray	8	0.88	10ND	
 Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fittings. (see page 79). ADA Compliant/Heel-proof.						

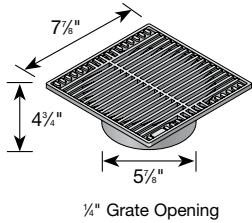
GRATES: STANDARD, DECORATIVE & METAL / SPEE-D® BASINS

Square Grates (continued)

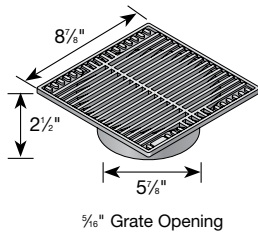
DRAINAGE



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications	
771	7" Square Grate	Black	10	0.65	10ND	7" Square Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 13.60 square inches. 41.60 GPM.	
772	7" Square Grate	Green	10	0.65	10ND		
773	7" Square Grate	Gray	10	0.65	10ND		
773S	7" Square Grate	Sand	10	0.65	10ND		
		 Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fittings, 6" Corrugated Pipe. (see page 79). ADA Compliant/Heel-proof.					



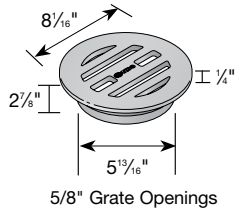
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications	
881	8" Square Grate	Black	10	0.79	10ND	8" Square Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 17.16 square inches. 52.49 GPM.	
882	8" Square Grate	Green	10	0.79	10ND		
883	8" Square Grate	Gray	10	0.79	10ND		
883S	8" Square Grate	Sand	10	0.79	10ND		
		 Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fittings, 6" Corrugated Pipe and DWV Pipe. (see page 79). ADA Compliant/Heel-proof.					




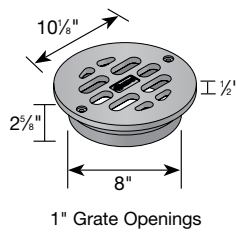
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. lbs.	Product Class	Specifications	
950	9" Square Grate	Green	10	1.11	10ND	9" Square Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 28.40 square inches. 86.88 GPM.	
960	9" Square Grate	Gray	10	1.11	10ND		
970	9" Square Grate	Black	10	1.11	10ND		
970S	9" Square Grate	Sand	10	1.11	10ND		
		 Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fittings, 6" Corrugated Pipe. (see page 79). ADA Compliant.					

GRATES: STANDARD, DECORATIVE & METAL

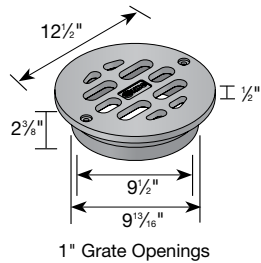
Duracast™ In-Line Grates




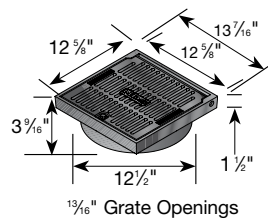
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
D6	6" Round Grate	Black	1	7.30	10ND	6" Round Heavy-Duty Ductile Grate with Black Paint. Open surface area 7.05 square inches. 21.57 GPM. H-20 load rating.
	Fits 6" Corrugated and Sewer and Drain Pipe. D6 is not a custom grate and qualifies for normal NDS freight terms. Fits SPEE-D® Basin. (see page 79)					



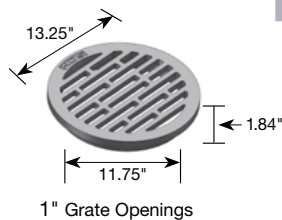
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
D8	8" Round Grate	Black	1	14.59	10ND	8" Round Heavy-Duty Ductile Iron Grate with Black Paint. Open surface area 13.98 square inches. 42.77 GPM. Bolt holes for added security. H-20 load rating.
	Fits 8" Corrugated and Sewer and Drain Pipe. D8 is not a custom grate and qualifies for normal NDS freight terms. (see page 79)					



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 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.
	Fits 10" Corrugated and Sewer and Drain Pipe. D10 is not a custom grate and qualifies for normal NDS freight terms. (see page 79)					



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
D12H-WO	12" Square Hinged Cast Iron Grate without Adapter	Black	1	48.00	10ND	H-20 load rating. Open surface area 48.30 square inches. 147.76 GPM.
D12	12" Round Grate	Black	1	16.00	10ND	H-20 load rating. Open surface area 55.16 square inches. 169.74 GPM.
	Fits 12" Corrugated and Sewer and Drain Pipe. (see page 79)					



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DRAINAGE

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