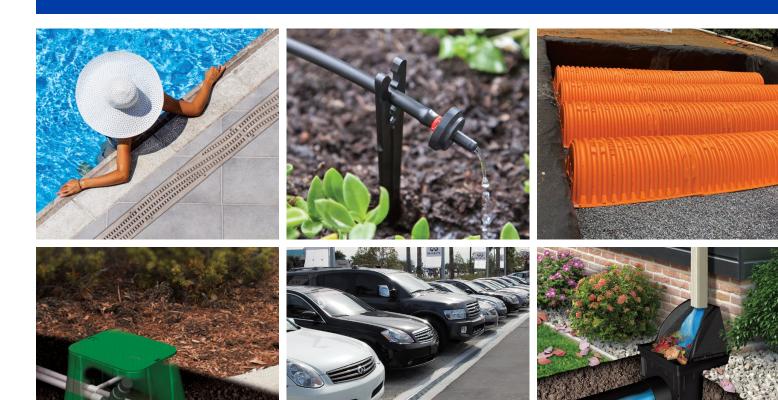


Your knowledgeable and trusted partner for the best in water management solutions.

# **Product Catalog**



Residential and Commercial Drainage | Professional Irrigation | Valve and Meter Boxes | Flow Management





# Drainage

NDS offers innovative and proven products for subsurface drainage and stormwater management. Our products are the preferred choice of contractors, engineers, landscape architects and even homeowners.



### **Product Applications**

NDS Drainage products are designed to meet the needs of any size project. We offer solutions that meet capacity and needs for residential and commercial properties including:



#### **Downspout Runoff**

NDS offers solutions to safely and efficiently drain water away from downspouts to avoid pooling water near foundations.



#### Landscape Areas and Yards

NDS offers drain grates and subsurface solutions to eliminate muddy and messy areas and protect landscaping.



#### Subsurface and Foundation

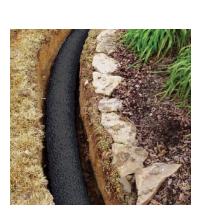
Engineered solutions such as EZflow® French Drain system, NDS® StormChamber® and Flo-Well® dry well offer proven performance and are lightweight and easy to install.

### We put water in its place™



#### **Catch Basins**

NDS provides a range of catch basins and grates for stormwater management, from 6" round to 24" square. They include sump areas to collect debris and prevent clogging.



#### **EZflow**®

A labor-saving, gravel-free alternative to a traditional French Drain system. EZflow® is available with and without pipe and offers better flow capacity than traditional stone and pipe systems.



#### Grates

Drain grates prevent leaves and debris from blocking drainage systems. NDS offers a variety of grates, including decorative solutions, brass and cast iron, and colors that work with any environment.



#### Flo-Well®

An engineered dry well system, Flo-Well® can be installed with or without gravel or heavy equipment. Units are modular and can be connected for larger volume needs.



#### **Pop-Up Drain Emitters**

NDS pop-up emitters safely release captured drainage water away from structures and landscapes. NDS emitters lay flat to blend in, and open only when needed to discharge water.



#### StormChamber® Systems

StormChamber® systems offer flexibility and easy installation and are a lower cost alternative to drainage pipes with the added benefits of groundwater recharge and water quality enhancement.

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#### **EZflow® Gravel-Free French Drain**





Part No.	Description	Color	Bundle Qty/ Linear Feet	Wt. per Bundle (lbs.)	Product Class	Specifications
EZ-0701F	7" O.D. mesh with 3" slotted pipe (center)	Black	90	36.0	11RP	10 ft. polyethylene slotted drain pipe surrounded by
EZ-1001F	10" O.D. mesh with 4" slotted pipe (center)	Black	50	30.0	11RP	100% recycled polystyrene aggregate and enclosed
EZ-1501F	15" O.D. mesh with 6" slotted pipe (center)	Black	20	26.0	11RP	in 30-sieve polyethylene geotextile mesh.
EZ-0701A	7" O.D. mesh without pipe – aggregate only	Black	90	18.0	11RP	10 ft. segment of 100%
EZ-1001A	10" O.D. mesh without pipe – aggregate only	Black	50	17.0	11RP	recycled polystyrene aggregate only, enclosed in 30-sieve polyethylene
EZ-1501A	15" O.D. mesh without pipe – aggregate only	Black	20	15.0	11RP	geotextile mesh.

EZflow must be ordered in full bundle quantities, and is not returnable, exchangeable, or refundable.

### EZflow® Storage and Flow Rate (45% void space among consolidated EPS aggregate)















		Storage Volume	Flow Capacity
	Slotted Pipe		
)	EZ-0701F	11.4 gallons per 10 ft. piece	80.8 GPM @ 1% slope
,	EZ-1001F	21.5 gallons per 10 ft. piece	130.9 GPM @ 1% slope
))	EZ-1501F	45.8 gallons per 10 ft. piece	345.0 GPM @ 1% slope
	Aggregate Only		
	EZ-0701A	8.8 gallons per 10 ft. piece	37.1 GPM @ 1% slope
)	EZ-1001A	17.2 gallons per 10 ft. piece	75.7 GPM @ 1% slope
	EZ-1501A	36.5 gallons per 10 ft. piece	170.3 GPM @ 1% slope

## **EZflow® Internal Couplings & End Caps**





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

## We put water in its place™

### NDS® StormChamber® and Accessories



	Dimensions										
Part No.	Description	Color	Length	Width	Height	Weight (lbs.)	Quantity Per Pallet	Product Class			
20 Cubic Ft	20 Cubic Ft										
SC-1820-S-O	Start Chamber	Orange	102"	39"	18"	53	45	10SC			
SC-1820-E-O	End Chamber	Orange	101"	39"	18"	53	45	10SC			
SC-1820-M-O	Middle Chamber	Orange	101"	39"	18"	53	45	10SC			
SC-1820-C-O	Closed Chamber	Orange	102"	39"	18"	53	45	10SC			
75 Cubic Ft	75 Cubic Ft										
SC-3475-S-O	Start Chamber	Orange	103"	61"	34"	100	30	10SC			
SC-3475-E-O	End Chamber	Orange	103"	61"	34"	100	30	10SC			
SC-3475-M-O	Middle Chamber	Orange	103"	61"	34"	100	30	10SC			
SC-3475-C-O	Closed Chamber	Orange	103"	61"	34"	100	30	10SC			
105 Cubic Ft											
SC-44105-S-O	Start Chamber	Orange	87"	80"	41"	120	20	10SC			
SC-44105-E-O	End Chamber	Orange	87"	80"	41"	120	9	10SC			
SC-44105-M-O	Middle Chamber	Orange	87"	80"	41"	120	9	10SC			
SC-44105-C-O	Closed Chamber	Orange	87"	80"	41"	120	20	10SC			
Accessories											
SC-ST	Sediment Trap	Black	47" OD	-	2'	3	4	10SC			
SC-2412P	24" X 12" HDPE Pipe, Use with SC-18	Black	24"	-	12"	9.25	20	10SC			
SC-NWFF-500	Filter Fabric Non-Woven, Light	Black	360'	12.5'	1.5' OD roll	220	3	10SC			
SC-WFF-75	Stabilization Fabric Woven, Medium	Green	75'	7.5'	0.75' OD roll	75	16	10SC			
SC-FL-10	10" Frame and Lid for 10" Pipe	Black	16" OD	-	3"	24	-	10SC			
SC-3020P	30" X 20" HDPE Pipe	Black	36" OD	-	20"	45	4	10SC			

For additional specifications, Refer to Technical Specification documents at **ndspro.com/specifications** 



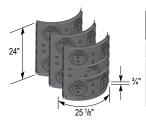
## Flo-Well® Engineered Dry Well



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



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
FWAS24CWH	24" diam. Flo-Well® Cover	Black	2	5.92	10FW	Structural foam polyolefin round
	Use with #FWAS24.					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.



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			
	Includes 3 side panels; makes 1 round dry (May also be used as a durable compost l				panels with UV inhibitors with 22 1-1/2" knockout leaching ports and 4 4.5" knockout inlet/outlet ports per panel. 0.75" lip for firm stacking.				



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



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



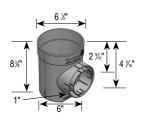
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications			
FWFF67	Porous Filter Fabric Wrap for Flo-Well®	Black	1	0.35	10FW	7' long x 2' wide to surround Flo-			
	Use with #FWAS24.	Well® Drywell System. Non-woven fabric. Weight 1 oz. Mullen burst 175 psi. 200 GPM flow-through.							

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#### **Catch Basins**

### Spee-D® Basins

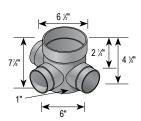
Use our compact 6" round Spee-D Basins with grates to collect runoff water while its sump area collects debris and prevents clogging. Also use Spee-D Basins with 6" Pop-Up Emitters to provide a point of discharge or overflow in a drainage system.



Part	No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications				
101		Spee-D Basin with one 3" and 4" Locking Outlet	Black	10	1.60	10ND	6" styrene catch basin with locking outlet. Up				
1010	SRKIT	Spee-D Basin with 6" Green Round Grate	Green Grate	6	2.10	10ND	to 116 GPM per outlet capacity.				
201		Spee-D Basin with two 3" and 4" Locking Outlets	Black	10	1.83	10ND					
		Kits contain 1-outlet Spee-D Basin & Grate as described.									



101R	Spee-D Basin Riser	Black	12	1.07	10ND	6" Riser for Spee-D Basin.
	Use with any Spee-D Basin to add from 2" guidelines in 1" increments. Compatible wit				l has	Styrene.



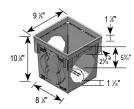
250	Spee-D Basin with wo - 4" 90° Outlets	Black	12	1.64	10ND			
300	Spee-D Basin with hree - 4" Outlets	Black	12	1.82	10ND	6" styrene catch basin with pipe outlets.153 GPM per outlet capacity.		
350	Spee-D Basin with four - 4" Outlets	Black	12	2.00	10ND			
	Fits 4" Sewer & Drain Fittings, use 4P05 Coupling to Connect 4" Sewer & Drain pipe. Use Spee-D Basin Riser 101R or 6" Sewer & Drain pipe as riser extension.							



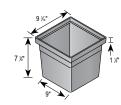
### 9" Catch Basin Series



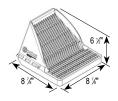
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
900FF	9" Catch Basin Filter	Blue Frame/ Black Bag	8	0.18	10ND	Polypropylene Frame Fabric is non-woven
Compatible with these basins: 900, 900-4 and 916 NDS Catch Basins, Risers and Kits						geotextile 95 PM/SM.



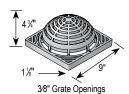
900BLKIT	9" x 9" Catch Basin Kit w/ #980 Grate	Black Grate	4	5.30	10ND	
900GRKIT	9" x 9" Catch Basin Kit w/ #990 Grate	Green Grate	4	5.30	10ND	9" x 9" tapered Catch
900SKIT	9" x 9" Catch Basin Kit w/ #990 Grate	Sand Grate	4	5.30	10ND	Basin. Polypropylene. Kits include 2-opening Catch Basin, Grate, Screws, (1) 1243 Outlet, (1) 1245 offset outlet, and (1) Plug. DISP includes 4 kits with (4) black grates and (4) green.
900KITDISP	9" x 9" Catch Basin Kits in Display Box	Blk/Grn Grates	8	5.0 each	10ND	
900	9" x 9" Catch Basin 2-opening	Black	4	3.0	10ND	
900-4	9" x 9" Catch Basin 4-opening	Black	4	2.00	10ND	
900MTLKIT	9" x 9" Catch Basin Kit, Galvanized Grate	Galvanized Grate	1	6.75	10ND	



916	9" x 9" Catch Basin Riser	Black	4	1.75	10ND	6" Riser for 9" x 9 Catch		
	Use with 9" x 9" Catch Basin Series. State basin. Can be cut to size.	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.						



900DSG	9" x 9" Downspout Defender Grate	Black	4	0.8	10ND	9" x 9" Downspout Grate, Structural Foam Polyolefin
	Fits all NDS 9" square Catch Basins, Risers	and Low-Profile Ac	dapters			with UV inhibitors. 146 GPM.
900DSGKIT	9" x 9" Low-Profile Downspout Kit	Black	4	2.25	10ND	Kit includes 9" Downspout
	Receives downspouts from 2" to 4" round o 3" & 4" Sewer and Drain Pipe, 4" Sewer and and 3" & 4" Triple Wall Pipe.	•				Defender Grate, (1) 930 low-profile adapter and (1) 1243 outlet adapter. 146 GPM.



981	9" x 9" Atrium Grate	Black	6	0.87	10ND	9" Structural Foam Polyolefin Dome Atrium Grate with UV inhibitor. Open surface area: 31.50 square inches. 96.36 GPM.
991	9" x 9" Atrium Grate	Green	6	0.87	10ND	
	Use with 9" x 9" Catch Basin Series.					



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990	9" Square Grate	Green	8	1.50	10ND	9" Square Structural
999	9" Square Grate	Gray	8	1.50	10ND	Foam Polyolefin Grate with UV inhibitor. Open surface area:
9998	9" Square Grate	Sand	8	1.50	10ND	
*		37.49 square inches. 114.69 GPM.				

1.50

10ND

Black

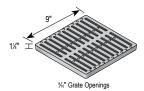
9" Square Grate

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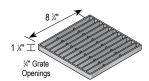
### 9" Catch Basin Series, continued



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.					



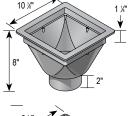
913	9" Square Ductile Iron Grate	Black*	4	8.0	10ND	9" Square Heavy-Duty Ductile Iron Grate.
	No screws required. Use with 9" x 9" Catch *Painted for shipping & display only; grate			ated, see pa	ge 71.	Open surface area: 21.70 square inches. 66.38 GPM.



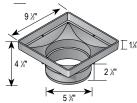
915	9" Square Galvanized Steel Grate	Galvanized Steel	4	3.80	10ND	9" Square Heavy-Duty Galvanized Steel Bar	
	No screws required. Use with 9" x 9" Catch Class D Load Rated, see page 71.	Basin Series.				Grate. Open surface area: 61.94 square inches. 189.48 GPM.	



930	9" x 9" Low-Profile Adapter	Black	8	0.75	10ND	9" x 9 Low-Profile Adapter. Styrene. Kits contain Low-Profile Adapter, 3" & 4" Universal Locking Outlet and Grate
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 #1243, #1245, #126 connect to 3", 4", 6" or 8" Sewer and Drain	as described.				



931	9" x 9" Deep Housing Spigot Adapter	Black	10	2.40	10ND	9" x 9" Square Deep Housing Spigot Adapter.
	Fits 4" Corrugated Pipe.					Styrene.



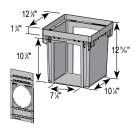
932	9" x 9" Low-Profile Housing Adapter	Black	8	1.13	10ND	NDS #932, 9" x 9" Square Low-Profile Housing
	Fits 6" Spee-D® Basin and 6" Sewer and D	Adapter with 6" Outlet. Styrene.				



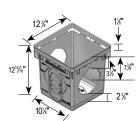
### 12" Catch Basin Series



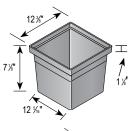
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1200FF	12" Catch Basin Filter	Blue Frame/ Black Bag	8	0.10	10ND	Polypropylene Frame
	Compatible with all NDS 12"x12" grates exc 1218GR, 1218GY, 1218S.	Fabric is non-woven geotextile 95 PM/SM.				



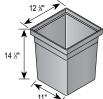
1200NGBKIT	12" x 12" Catch Basin, 2 Open Slides	Black	4	4.65	10ND	Adjustable Outlet Catch Basin. Sides adjust to 3 different outlet elevations. Polypropylene basin and styrene sides.
	Compatible with 12" x 12" Catch Basin Rise Does not include grate or outlets	ers and Grates.				



1200BLKIT	12" x 12" Catch Basin Kit	Black Grate	4	7.59	10ND	
1200GRKIT	12" x 12" Catch Basin Kit	Green Grate	4	7.59	10ND	400 - 400 T O-4-l-
1200SKIT	12" x 12" Catch Basin Kit	Sand Grate	4	7.59	10ND	12" x 12" Tapered Catch Basin. Polypropylene.
1200MTLKIT	12" x 12" Catch Basin Kit w/Galvanized Steel Grate	Galvanized Steel	1	9.79	10ND	Kits include 2-opening Catch Basin, Grate,
1200KITDISP	12" x 12" Catch Basin Kits in Display Box	Blk/Grn Grates	8	7.59	10ND	Screws, (1) 1243 Outlet,
1200	12" x 12" Catch Basin, 2 Openings	Black	4	4.25	10ND	(1) 1245 offset outlet, and (1) Plug
1203	12" x 12" Catch Basin, 3 Openings	Black	4	3.75	10ND	DISP includes 4 kits with (4) black grates and (4) green
1204	12" x 12" Catch Basin, 4 Openings	Black	4	3.75	10ND	
1200, 1203, and 1204 do not include grate or outlets. Requires #1206, #1243, #1245, #1266 or #1889 Universal Outlet to connect pipe to basin (see page 18). Bottom cutout can be removed.						<b>9.</b> 00.1



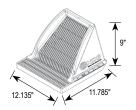
1216	12" x 12" Catch Basin Riser	Black	8	2.75	10ND	6" Riser for 12" Catch
	Use with 12" x 12" Catch Basin Series. Stacks on top of 12" catch basins to add up	Basin. Styrene.				



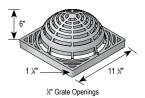
1225	12" x 12" Sump Box	Black	4	6.75	10ND	One-piece 12" Sump Box.
	Use with 12" x 12" Grate #1216 or #1220 St	Styrene.				

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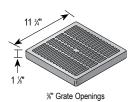
### 12" Catch Basin Series, continued



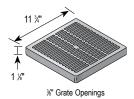
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
1200DSG	12" x 12" Downspout Defender Grate	Black	8	n/a	10ND	12" x 12" Downspout Grate. Structural Foam	
	Receives downspouts from 2" to 6" round or square. Fits all NDS 12" square Catch Basins, Risers and Low-Profile adapters.						



1280	12" x 12" Atrium Grate	Green	8	1.74	10ND	12" Structural Foam Polyolefin Dome Atrium
1290	12" x 12" Atrium Grate	Black	8	1.74	10ND	Grate with UV inhibitor. Open surface area
	Use with 12" x 12" Catch Basin Series.	50.60 square inches. 154.79 GPM.				



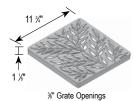
1210	12" x 12" Square Grate	Gray	8	2.33	10ND	
1211	12" x 12" Square Grate	Black	8	2.33	10ND	12" Square Structural
1212	12" x 12" Square Grate	Green	8	2.33	10ND	Foam Polyolefin Grate with UV inhibitor. Open surface area 50.76 square inches. 155.28 GPM.
1212S	12" x 12" Square Grate	Sand	8	2.33	10ND	
广	Use with 12" x 12" Catch Basin Series. ADA Compliant, see page 71.					



1230B	12" Square Brass Grate	Brass	1	9.24	15BR	Open surface area 42.87 square inches.
	*Painted for shipping & display only; grate w ADA Compliant, see page 71.	131.14 GPM. Includes SS Screws. Class B load rated.				



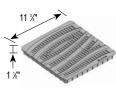
1218S	12" x 12" Square Botanical Grate	Sand	8	3.27	10ND	
1218GR	12" x 12" Square Botanical Grate	Green	8	3.27	10ND	12" Square Structural Foam Polyolefin Botanical
1218GY	12" x 12" Square Botanical Grate	Gray	8	3.27	10ND	Grate with UV inhibitor. Open surface area 24.44 square inches. 74.77 GPM.
1218	12" x 12" Square Botanical Grate	Black	8	3.27	10ND	
	ADA Compliant, see page 71.					

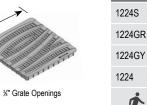


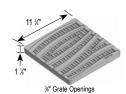
1218CI	12" x 12" Square Botanical Cast Iron Grate	Black*	1	12.67	10ND	12" Square Cast Iron Botanical Grate. Open surface area 24.44 square inches.
629	Stainless Steel Screws, FH 1/4-20 x 1-3/4"	Metal	40/Bag	n/a	10ND	
	*Painted for shipping & display only; grate w ADA Compliant, see page 71.	74.77 GPM. Class B load rated.				

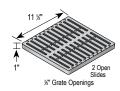


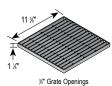
### 12" Catch Basin Series, continued





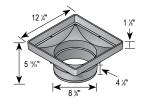










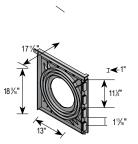


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1224S	12" x 12" Square Wave Grate	Sand	8	2.68	10ND	opecinications		
1224GR	12" x 12" Square Wave Grate	Green	8	2.68	10ND	12" Square Structural		
1224GY	12" x 12" Square Wave Grate	Gray	8	2.68	10ND	Foam Polyolefin Wave Grate with UV inhibitor.		
1224	12" x 12" Square Wave Grate	Black	8	2.68	10ND	Open surface area		
<b>†</b>	ADA Compliant, see page 71.	Diack	Ü	2.00	TOND	25.67 square inches. 78.53 GPM.		
1224CI	12" x 12" Square Wave Cast Iron Grate	Black*	1	13.90	10ND	12" Square Cast Iron Wave Grate.		
629	Stainless Steel Screws, FH 1/4-20 x 1-3/4"	Metal	40	n/a	10ND	Open surface area 25.60 square inches.		
	*Painted for shipping & display only; grate will for ADA Compliant/Heel-proof, see page 71.	m iron-oxide pa	atina	_		78.31 GPM. Class B load rated.		
1213	12" v 12" Squara Duatila Iran Crata	Black*	1	15.30	10ND	12" Square Heavy-Duty		
1213	12" x 12" Square Ductile Iron Grate	Black		15.30	TUND	Ductile Iron Grate. Ope		
	Use with 12" x 12" Catch Basin Series. *Painted for shipping & display only; grate will for ADA Compliant, see page 71.	surface area 37.20 squar inches. 113.80 GPM. Class C load rated.						
		Galva-			40110	12" Square Heavy-Duty Galvanized Steel Bar Grate, Open surface area		
1215	12" x 12" Square Galvanized Steel Grate	nized Steel	1	5.85	10ND			
1215	12" x 12" Square Galvanized Steel Grate  Use with 12" x 12" Catch Basin Series. See page 71.		1	5.85	10ND			
	Use with 12" x 12" Catch Basin Series. See page 71.	Steel				Grate. Open surface are 113.78 square inches. 348.07 GPM.		
	Use with 12" x 12" Catch Basin Series.		8	2.23	10ND	Grate. Open surface are 113.78 square inches. 348.07 GPM. Class C load rated.  NDS #1220, 12" Square		
	Use with 12" x 12" Catch Basin Series. See page 71.	Steel	8	2.23	10ND	Grate. Open surface and 113.78 square inches. 348.07 GPM. Class C load rated.  NDS #1220, 12" Square		
1220	Use with 12" x 12" Catch Basin Series. See page 71.  12" x 12" Sump/Valve Box Cover	Steel	8	2.23	10ND	Grate. Open surface arr 113.78 square inches. 348.07 GPM. Class C load rated. NDS #1220, 12" Square Structural Foam Polyole		
1215	Use with 12" x 12" Catch Basin Series. See page 71.  12" x 12" Sump/Valve Box Cover  Use with NDS 12" x 12" Catch Basin Series, #12	Black Black Black	8 and #1219	2.23 9 Backwater 1.25	10ND Valve Box.	Grate. Open surface arr 113.78 square inches. 348.07 GPM. Class C load rated. NDS #1220, 12" Square Structural Foam Polyole		
1220	Use with 12" x 12" Catch Basin Series. See page 71.  12" x 12" Sump/Valve Box Cover  Use with NDS 12" x 12" Catch Basin Series, #12  12" x 12" Low-Profile Adapter  Adapter #1242, #1243, #1245, #1266 or #1889 U	Black Black Black	8 and #1219	2.23 9 Backwater 1.25	10ND Valve Box.	Grate. Open surface arr 113.78 square inches. 348.07 GPM. Class C load rated. NDS #1220, 12" Square Structural Foam Polyole fin Solid Cover.		
1220	Use with 12" x 12" Catch Basin Series. See page 71.  12" x 12" Sump/Valve Box Cover  Use with NDS 12" x 12" Catch Basin Series, #12  12" x 12" Low-Profile Adapter  Adapter #1242, #1243, #1245, #1266 or #1889 U	Black 225 Sump Box	8 and #1219	2.23 9 Backwater 1.25	10ND Valve Box.	Grate. Open surface an 113.78 square inches. 348.07 GPM. Class C load rated. NDS #1220, 12" Square Structural Foam Polyole fin Solid Cover.		

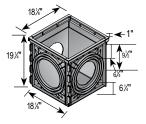
Use with NDS 12" x 12" Grates

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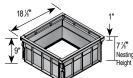
### 18" Catch Basin Series



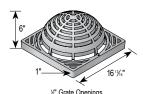
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1882	18" One-Piece Catch Basin 2 Openings	Black	1	10.00	10ND	18"x18" One-Piece Tapered Catch Basin. Structural Foam Polyolefin. Kits include 2-opening Catch Basin, Grate, Screws, 6" Outlet,
1882BLKIT	18" Catch Basin Kit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



1800	18" x 18" Catch Basin 2 Openings	Black	1	16.00	10ND		
1804	18" x 18" Catch Basin 4 Openings	Black	1	16.00	10ND	18" x 18" Modular Catch Basin with Locking Tabs.	
	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.)						



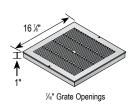
1816	8" Riser for 18" Catch Basin	Black	1	6.00	10ND	8" Riser for 18" x 18"
	Riser package includes 4 sides. Use with #1800, #1804, #1882 or #1884.					Catch Basin. Styrene.



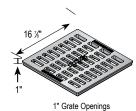
1881	18" x 18" Atrium Grate	Black	2	6.51	10ND	18" Structural Foam Poly-
1891	18" x 18" Atrium Grate	Green	2	6.51	10ND	olefin Dome Atrium Grate with UV inhibitor. Open
	Use with 18" x 18" Catch Basin Series.					surface area 89.40 square inches. 273.49 GPM.



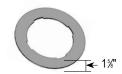
### 18" Catch Basin Series, continued



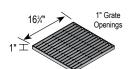
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
1810	18" x 18" Square Grate	Gray	4	7.72	10ND	18" Square Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 86.31 square
1811	18" x 18" Square Grate	Black	4	7.72	10ND	
1812	18" x 18" Square Grate	Green	4	7.72	10ND	
×	Use with 18" x 18" Catch Basin Series. ADA Compliant, see page 71.					inches. 264.03 GPM.



1813	18" x 18" Cast Iron Square Grate	Black*	1	46.00	10ND	18" Square Heavy-Duty Cast Iron Grate. Open surface area			
	No screws required. Use with 18" x 18" Catch Basin Series.								



1890	Universal Outlet Reducer Ring	Black	8	0.33	10ND	
	Required on #1821 basin side when using 3", 4' connecting to #1206, #1243, #1245, #1266 or #			821 basin s	ide when	Styrene.



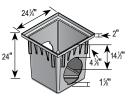
1815	18" Square Galvanized Steel Grate	Galvanized Steel	1	10.78	10ND	18" Square Heavy-Duty Galvanized Steel Bar
	No screws required. Use with 18" x 18" Catch Basin Series.					Grate. Open surface area 239.00 square inches. 731.13 GPM. Class C Load Rated.



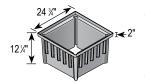
1830	18" x 18" Low-Profile Adapter	Black	4	4.75	10ND	18" x 18" Low-Profile
	Includes NDS #1890 Reducer Ring. Requires either an NDS #1243, #1245, #1266 or #1888 Universal Outlet to connect to pipe, see .					

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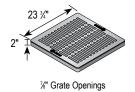
### 24" Catch Basin Series



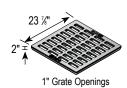
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications	
2400	24" x 24" Catch Basin, 2 Openings	Black	1	18.00	10ND	24" x 24" One-Piece Tapered Catch Basin. HDPE with Structural Foam. Kits include 2-opening	
2400BLKIT	24" Catch Basin Kit with Black Plastic Grate	Black Grate		50.00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



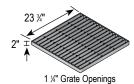
2418	24" x 24" Catch Basin Extension (No Bottom)	Black	1	14.60	10ND	8" Extension for 24" x 24" Catch Basin, HDPE with
	Use with 24" x 24" Catch Basin Series.					Structural Foam.



2411	24" x 24" Square Grate	Black	1	19.75	10ND	24" Square HDPE with
2412	24" x 24" Square Grate	Green	1	19.75	10ND	Structural Foam Grate with UV inhibitor. Open surface area
广	No screws required. Use with 24" x 24" Cal See page 71.	231.69 square inches. 708.77 GPM.				



2413	24" x 24" Square Cast Iron Grate	Black*	1	147.00	10ND	24" Square Heavy-Duty Cast Iron Grate.
	No screws required. Use with 24" x 24" Cat See page 71. *Painted for shipping & display only; grate v		patina	Open surface area 197.00 square inches. 602.65 GPM.		



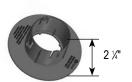
2415	24" x 24" Square Galvanized Steel Grate	Galvanized Steel	1	62.88	10ND	24" Square Heavy-Duty Galvanized Steel Bar Grate.		
	No screws required. Use with 24" x 24" Cat See page 71.	ch Basin Series				Open surface area 422.45 square inches. 1292.33 GPM. Class C Load Rated.		



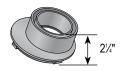
110	10" & 12" Universal Adapter	Black	1	4.20	10ND	
	Includes #1890 (comes pre-inserted). Fits 1 Wall Corrugated Pipe; 12" Single Wall CorruPipe). Reduces opening to fit most 3" to 8" a 6" and 8" Sewer and Drain Pipe; 3", 4", 6" a corresponding adapter above). Use with 24	ugated Pipe (does nadapters above (all and 8" Corrugated P	ot fit 10" Sir except #188 ipe; and 4"	ngle Wall Co 89) for use v	orrugated with 3", 4",	10"/12" Universal Adapter. HDPE.



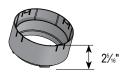
### **Catch Basin Universal Outlets**



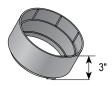
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications	
1243	3" & 4" Universal Locking Outlet*	Black	20	0.60	10ND		
	Fits 3" & 4" Corrugated Pipe, 3" & 4" Sewer and Drain Pipe, 4" Sch. 40 Pipe and 3" & 4" Triple Wall Pipe. Use with 9", 12", 18" and 24" Catch Basin Series and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



1245	3" & 4" Offset Universal Outlet	Black	20	0.50	10ND	
	Fits 3" & 4" Corrugated Pipe, 3" & 4" Sewer a Allows for adjusting inlet height. Use with 9", Use with 24" Catch Basin also requires #2410	12", 18" and 24" Cat			all Pipe.	3" & 4" Offset Universal Outlet. Styrene.



12	66	6" Universal Locking Outlet*	Black	20	0.55	10ND				
		Fits 6" Sewer and Drain Pipe, 6" Corrugated F Series and #930, #1230 and #1830 Low-Profi #2410 Adapter. *Locking Outlet snaps on to most 6" corrugate	le Adapters. Use wi				6" Universal Locking Outlet. Styrene.			



1888	8" Universal Outlet	Black	8	1.05	10ND	8" Universal Outlet.
	Fits 8" Sewer and Drain Pipe, 8" Corrugated Use with 24" Catch Basin also requires #241	•	nd 24" Cato	ch Basin Se	ries.	Styrene.

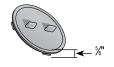


1889	8" Offset Universal Adapter	Black	10	0.74	10ND	8" Offset Universal
	Fits 8" Sewer and Drain Pipe, 8" Corrugated Use with 12" and most 18" Catch Basin Serie	•	1804).			Adapter. Styrene.



2410

10" & 12" Universal Adapter	Black	1	4.20	10ND	
Includes #1890 (comes pre-inserted). Fits 10" Wall Corrugated Pipe; 12" Single Wall Corrugated Pipe; 12" Single Wall Corrugated Pipe). Reduces opening to fit most 3" to 8" ad 6" and 8" Sewer and Drain Pipe; 3", 4", 6" and corresponding adapter above). Use with 24" C	ated Pipe (does not apters above (all ex d 8" Corrugated Pipe	fit 10" Sing cept #1889	le Wall Corr ) for use wit	rugated th 3", 4",	10"/12" Universal Adapter. HDPE.

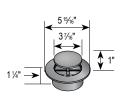


120	16	6" Universal Adapter Plug	Black	20	0.35	10ND	Universal Plug. Styrene.

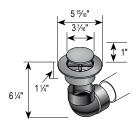
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## **Pop-Up Drainage Emitters**

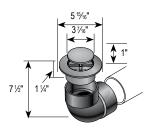
### 3" & 4" Pop-up Drainage Emitters



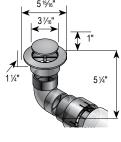
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
420	3" & 4" Pop-up Drainage Emitter	Green	3" and 4" polyolefin spring-loaded Pop-up			
	Fits 3" and 4" Sewer and Drain Fittings.  Ideal for discharging excess water from stormwater management system.  Spring automatically retracts.					



321	Emitter with 3" Elbow	Green	25	0.60	10ND	NDS #420 polyolefin spring-loaded Pop-up
	Fits 3" Sewer and Drain Pipe. Ideal for discharging excess water from stormwa Spring automatically retracts.	iter managemer	nt system.			Drainage Emitter with UV inhibitor, 3" styrene 90 degree elbow with 1/4" drain hole. 40 GPM outflow capacity with 1" system head. 0.04 psi or 1" of head to raise top.



421	Emitter with 4" Elbow	Green	20	0.85	10ND	NDS #420 polyolefin spring-loaded Pop-up
	Fits 4" Sewer and Drain Pipe. Ideal for discharging excess water from stormwa Spring automatically retracts.	iter managemer	nt system.			Drainage Emitter with UV inhibitor, 4" styrene 90 degree elbow with 1/4" drain hole. 43 GPM outflow capacity with 1" system head. 0.04 psi or 1" of head to raise top.

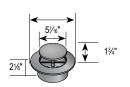


430	Pop-up Drainage Emitter with 3" Elbow and Universal Adapter	Green	20	1.00	10ND	NDS #420 polyolefin spring-loaded Pop-up Drainage Emitter with UV			
	Universal Adapter fits 3" and 4" corrugated pipe, sewer and drain pipe, 4" Sch. 40 pipe, and 3" an Ideal for discharging excess water from stormwa Spring automatically retracts.		inhibitor, 3" styrene 90 degree elbow with 1/4" drain hole and #1241 universal pipe adapter. 43 GPM outflow capacity with 1" system head. 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			
	Connects 3" & 4" Sewer and Drain Fittings with 3 3" & 4" Sewer and Drain Pipe, 4" Sch. 40 Pipe a	Universal Adapter. Styrene.							

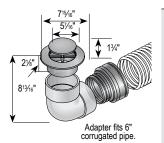




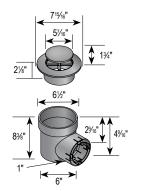
## 6" Pop-up Drainage Emitters



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		
	Can be used with Flo-Well to relieve overflow.					Pop-up Drainage Emitter with UV inhibitor. 125 GPM outflow capacity with 1" system head. 0.04 psi or 1" of head to raise top.		



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.125 GPM outflow capacity with 1" system head. 0.04 psi or 1" of head to raise top.
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625	6" Pop-up Emitter wih Spee-D® Basin	Green	8	2.21	10ND	NDS #620 polyolefin
	3" - 4" S & D, Corrugated, Single Wall, Dual Wa	ll, Triple Wall.				spring-loaded Pop-up Drainage Emitter with UV inhibitor and Spee-D basin. 125 GPM outflow capacity with 1" system head. 0.04 psi or 1" of head to raise top.

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## **Common Drainage Fittings**

### 90 Degree PVC Elbow



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
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

### **Corrugated End Caps**



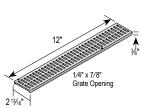
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class
3C06	3" Corrugated Endcap	Black	33	0.05	30PE
4C06	4" Corrugated Endcap	Black	30	0.06	30PE
6C06	6" Corrugated Endcap	Black	15	0.50	30PE

See Fittings section, pages 142-162, for additional fitting options.



### **Grates: Metal, Decorative & Standard**

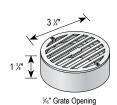
#### **Brass & Chrome Grates**



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		
553PB	1 ft. Brass Channel Grate	Polished Brass	12	1.21	25PF	Brass Grate with brass screws. Open surface		
Ķ	Fits #500 Mini Channels, see page 43. ADA Compliant/Heel-proof, see page 71.					area 9.20 square inches per foot. 28.14 GPM per foot.		



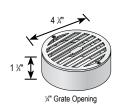
909B	3" Round Brass Grate w/PVC Collar	Satin Brass	20	0.40	15BR	3" Round Solid Brass
905PB	3" Round Brass Grate w/PVC Collar	Polished Brass	20	0.40	15BR	Grate and brass screws with PVC collar. Open
Ķ	Fits 2" SCH-40 Pipe and 3" Sewer and Drain ADA Compliant/Heel-proof, see page 71	surface area 2.68 square inches. 8.20 GPM.				



915SC	3" Round Chrome Grate w/PVC Collar	Satin Chrome	20	0.40	15BR	2" Dound Solid Chromo
907PC	3" Round Chrome Grate w/PVC Collar	Polished Chrome	20	0.40	15BR	3" Round Solid Chrome Grate and screws with PVC collar. Open surface
<b>†</b>	Fits 3" Sewer and Drain Fittings and 2" SCH-4 ADA Compliant/Heel-proof, see page 71.	area 2.68 square inches. 8.20 GPM.				



910B	4" Round Brass Grate w/PVC Collar	Satin Brass	20	0.64	15BR	4" Round Solid Brass	
906PB	4" Round Brass Grate w/PVC Collar	Polished Brass	20	0.64	15BR	Grate and brass screws with PVC collar. Open	
*	Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain Fittings.  ADA Compliant/Heel-proof, see page 71.						



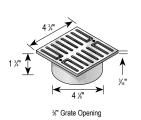
917SC	4" Round Chrome Grate w/PVC Collar	Satin Chrome	20	0.66	15BR	4" Dound Chromo Croto
908PC	4" Round Chrome Grate w/PVC Collar	Polished Chrome	20	0.66	15BR	4" Round Chrome Grate and screws with PVC collar. Open surface area
*	Fits 3" Sewer & Drain Pipe, 4" Sewer & Drain ADA Compliant/Heel-proof, see page 71.	5.25 square inches. 16.06 GPM.				



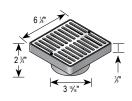
918B	6" Round Brass Grate w/Styrene Collar	Satin Brass	8	1.38	15BR	6" Round Solid Brass Grate and brass screws with styrene collar. Open			
919PB	6" Round Brass Grate w/Styrene Collar	Polished Brass	8	1.38	15BR				
术	Fits Spee-D® Basin, 6" Sewer & Drain Fittings ADA Compliant, see page 71.	<b>3</b> .				surface area 13.10 square inches. 40.07 GPM.			

# We put water in its place $^{^{\text{\tiny{M}}}}$

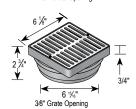
### **Brass & Chrome Grates, continued**



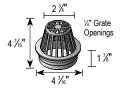
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
913B	5" Square Brass Grate w/PVC Collar	Satin Brass	10	1.21	15BR	5" Square Solid Brass Grate with brass screws and PVC collar.	
914PB	5" Square Brass Grate w/PVC Collar	Polished Brass	10	1.21	15BR		
Ķ	Fits 4" Sewer and Drain Fittings, 3" Sewer and Drain Pipe, and 3" Triple Wall Pipe. ADA Compliant, see page 71.						



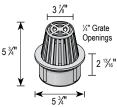
920B	6" Square Brass Grate w/Styrene Adapter	Satin Brass	8	1.65	15BR	6" Square Solid Brass			
923PB	6" Square Brass Grate w/Styrene Adapter	Polished Brass	8	1.65	15BR	Grate with brass-colored styrene low-profile adapter			
<b>†</b>	Fits 3" or 4" Sewer and Drain Pipe or Fittings, Pipe. ADA Compliant, see page 71.	3" or 4" Corrugated	I Pipe, and	3" or 4" Trip	le Wall	and brass screws. Open surface area 11.60 square inches. 35.49 GPM.			



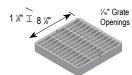
921B	6" Square Brass Grate w/Styrene Adapter	Satin Brass	8	1.71	15BR	6" Square Solid Brass			
922PB	6" Square Brass Grate w/Styrene Adapter	Polished Brass	8	1.70	15BR	Grate with brass-colored styrene low-profile adapter			
Ķ	Fits Spee-D® Basin, 6" Sewer and Drain Pipe ADA Compliant, see page 71.	e & Fittings.				and brass screws. Open surface area 11.60 square inches. 35.49 GPM.			



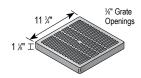
78B	4" Atrium Brass Grate	Brass	1	2.00	15BR	Open surface area 10.20 square inches. 31.20 GPM.
	Fits 4" Sewer and Drain Pipe & Fittings.					



90B	6" Atrium Brass Grate	Brass	1	5.30	15BR	Open surface area 22.50
	Fits 6" Sewer and Drain Pipe & Fittings.					square inches. 68.83 GPM.



930B	9" Square Brass Grate	Brass	1	5.11	15BR	Open surface area 34.00
	ADA Compliant, see page 71.					square inches. 104.01 GPM. Includes SS Screws.



1230B	12" Square Brass Grate	Brass	1	9.24	15BR	Open surface area 42.87	
	ADA Compliant, see page 71.					square inches. 131.14 GPM. Includes SS Screws.	

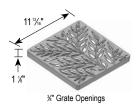


#### **Catch Basin Plastic & Metal Decorative Grates**

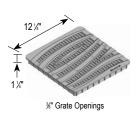
Fits 12" Catch Basins. Available in Botanical and Wave designs, in multiple colors or in cast iron. Plastic grates are "T-top" and overlap basin edge. Iron grates sit flush.



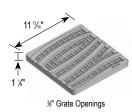
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications		
1218S	12" x 12" Square Botanical Grate	Sand	8	3.27	10ND	12" Square Structural Foam Polyolefin Botanical Grate with UV inhibitor. Open surface area 24.44 square inches.		
1218GR	12" x 12" Square Botanical Grate	Green	8	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			
Ķ	Use Screw # 839, FH#6 x 1-3/4". ADA Compliant, see page 71.					74.77 GPM.		



1218CI	12" x 12" Square Botanical Cast Iron Grate	Black*	1	12.67	10ND	12" Square Cast Iron			
629	1/4-20 x 1-3/4" FH Phillips Screw	Metal	40	n/a	10ND	Botanical Grate. Open surface area			
	*Painted for shipping & display only; grate wil ADA Compliant, see page 71.	form iron-oxide pat	ina			24.44 square inches. 74.77 GPM. Class B load rated.			



1224S	12" x 12" Square Wave Grate	Sand	8	2.68	10ND	
1224GR	12" x 12" Square Wave Grate	Green	8	2.68	10ND	12" Square Structural Foam Polyolefin Wave Grate with UV inhibitor. Open surface area 25.67 square inches.
1224GY	12" x 12" Square Wave Grate	Gray	8	2.68	10ND	
1224	12" x 12" Square Wave Grate	Black	8	2.68	10ND	
<b>汴</b>	Use Screw # 839, FH#6 x 1-3/4". ADA Compliant, see page 71	78.53 GPM.				

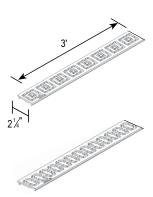


1224CI	12" x 12" Square Wave Cast Iron Grate	Black*	1	13.90	10ND	12" Square Cast Iron			
629	1/4-20 x 1-3/4" FH Phillips Screw	Metal	40	n/a	10ND	Wave Grate. Open surface area			
<b>~</b>	*Painted for shipping & display only; grate wil ADA Compliant, see page 71	l form iron-oxide pat	ina			25.60 square inches. 78.31 GPM. Class B load rated.			

## We put water in its place™

#### **Slim Channel Plastic Decorative Grates**

Excellent for light duty applications, including residential pools, concrete and paver patios, spas, walkways and paver landscapes.

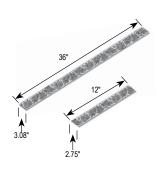


Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (Ibs.)	Product Class	Specifications
9251	3 ft. Slim Channel Grate Square	White	30 EA (90 LF)	0.36	25PF	3 ft Polypropylene Decorative Square Channel Grate with UV inhibitor. Open Surface Area 5.73 square inches per foot. 21.44 GPM per foot.
9252	3 ft. Slim Channel Grate Square	Sand	30 EA (90 LF)	0.36	25PF	
9253	3 ft. Slim Channel Grate Square	Gray	30 EA (90 LF)	0.36	25PF	
9261	3 ft. Slim Channel Grate Chain	White	30 EA (90 LF)	0.36	25PF	3 ft Polypropylene Decorative Chain Channel Grate with UV inhibitor. Open Surface Area 5.73 square inches per
9262	3 ft. Slim Channel Grate Chain	Sand	30 EA (90 LF)	0.36	25PF	
9263	3 ft. Slim Channel Grate Chain	Gray	30 EA (90 LF)	0.36	25PF	
*	ADA Compliant/Heel-proof, see page 71					foot. 21.44 GPM per foot.

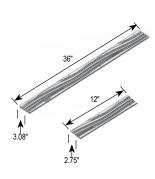


### Mini Channel Plastic & Metal Decorative Grates

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 1"	Steel	40/Bag	0.10	25PF	3 ft. Structural Foam
554S	3' Botanical Channel Grate	Sand	16	0.89		Polyolefin botanical pattern Channel Grate with UV inhibitor. Open surface area 5.44 square inches per foot.
554GY	3' Botanical Channel Grate	Gray	16	0.89		
554	3' Botanical Channel Grate	Black	16	0.89		16.64 GPM per foot.  1 ft Mini Channel
554CI	1' Botanical Cast Iron Channel Grate	Black*	1	1.82		botanical Cast Iron Channel Grate. Open surface area 5.39 square inches per foot. 16.49 GPM per foot.
529	Stainless Steel Screws, FH #4 x 5/8"	Steel	64/Bag	0.09	25PF	
	Class B load rated.					

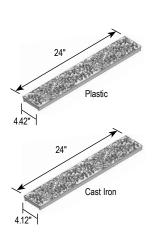


846	Stainless Steel Screws, FH #4 x 1"	Steel	40/Bag	0.10	25PF	0.00
555S	3' Wave Channel Grate	Sand	16	0.88	25PF	3 ft. Structural Foam Polyolefin wave pattern Channel Grate with UV inhibitor. Open surface area 5.73 square inches per foot. 17.54 GPM per foot.  1 ft. Mini Channel Wave Cast Iron Channel Grate. Open surface area 4.11
555GY	3' Wave Channel Grate	Gray	16	0.88		
555	3' Wave Channel Grate	Black	16	0.88		
555CI	1' Wave Cast Iron Channel Grate	Black*	1	1.30		
529	Stainless Steel Screws, FH #4 x 5/8"	Steel	64/Bag	0.09	25PF	square inches per foot. 12.56 GPM per foot. Class B load rated.
	*Painted for shipping & display only; grate v ADA Compliant, see page 71	will form iron-oxide p	oatina			Oldoo D load faled.

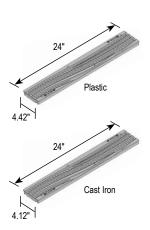
## We put water in its place™

### 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 #6 x 1-1/4"	Steel	40/ Bag	0.15	25PF	2 ft. Structural Foam Polyolefin decorative botanincal Channel Grate with UV inhibitor. Open surface area 7.78 square inches per foot. 23.80 GPM per foot. 2 ft. Cast Iron decorative botanincal Channel Grate. Open surface area 8.99 square inches per foot. 27.50 GPM per foot. Class B load rated.
252S	2' Channel Botanical Grate	Sand	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	
252Cl	2' Cast Iron Channel Botanical Grate	Black*	1 ft.	7.06	25PF	
229	Stainless Steel Screws, FH #8 x 1"	Steel	48/ Bag	0.06	25PF	
	Olass & load lateu.					



829	Stainless Steel Screws, FH #6 x 1-1/4"	Steel	40/ Bag	0.15	25PF	2 ft Ctrustural Foom
253S	2' Channel Wave Grate	Sand	24 ft.	1.84	25PF	2 ft. Structural Foam Polyolefin decorative wave Channel Grate
253GY	2' Channel Wave Grate	Gray	24 ft.	1.84	25PF	with UV inhibitor. Open surface area 7.78 square inches per foot. 23.80 GPM per foot.  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.
253	2' Channel Wave Grate	Black	24 ft.	1.84	25PF	
253CI	2' Cast Iron Channel Wave Grate	Black*	2 ft.	7.52	25PF	
229	Stainless Steel Screws, FH #8 x 1"	Steel	48/ Bag	0.06	25PF	



### **Dura Slope Metal Decorative Grates**

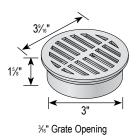
Fits all Dura Slope channels. Available in 8 designs: Weave, Tile, Brick, Diamond, Slot, Kiaro, Via and Ville. Ductile iron material, rated Class D and ADA compliant.



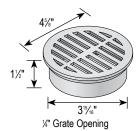
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
DS-601	Weave Pattern	Raw Iron	1	11.70	25DS	Weave: open area 7.92 square inches per foot; 24.3 GPM.
DS-602	Diamond Pattern	Raw Iron	1	14.30	25DS	Diamond: open area 9.25 square inches per foot; 28.3 GPM.
DS-603	Tile Pattern	Raw Iron	1	14.70	25DS	Tile: open area 11.93 square inches per foot; 33.6 GPM.
DS-604	Brick Pattern	Raw Iron	1	14.30	25DS	Brick: open area 9.72 square inches per foot; 29.8 GPM.
DS-609	Deco Slot	Raw Iron	1	11.70	25DS	Deco Slot: open area 17.46 square inches per foot; 53.5 GPM
DS-610-KIARO	Kiaro Slot	Ductile Iron	1	14.99	25DS	Kiaro Slot: open area 24.57 square inches per foot; 75.8 GPM.
DS-611-VIA	Via Slot	Ductile Iron	1	10.36	25DS	Via Slot: open area 22.9 square inches per foot; 70.1 GPM
DS-612-VILLE	Ville Pattern	Ductile Iron	1	11.68	25DS	Ville: open area 10.07 square inches per foot; 30.9 GPM
	Use with Dura Slope Drains (page 54). De Uncoated raw iron will develop a rust patir see page 71. Must be used with DS-200H					

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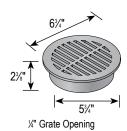
#### **Round Grates**



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	
<b>汴</b>	Fits 3" Sewer and Drain Pipe & Fittings, 3" ADA Compliant/Heel-proof, see page 71.					



11	4" Round Grate	Black	25	0.17	10ND	4" Round Structural Foam Polyolefin Grate with UV inhibitor. Open suraface 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		
广	Fits 4" Sewer and Drain Pipe & Fittings, 4" Corrugated Pipe, and 4" Triple Wall Pipe. ADA Compliant/Heel-proof, see page 71.						



40	6" Round Grate	Black	10	0.49	10ND		
50	6" Round Grate	Green	10	0.49	10ND	6" Round Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 9.10 square inches.	
60	6" Round Grate	Gray	10	0.49	10ND		
60S	6" Round Grate	Sand	10	0.49	10ND		
术	Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fittings and 6" Corrugated Pipe. ADA Compliant/Heel-proof, see page 71.						



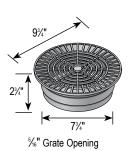
10	8" Round Grate	Black	10	0.60	10ND			
20	8" Round Grate	Green	10	0.60	10ND	8" Round Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 11.50 square inches.		
30	8" Round Grate	Gray	10	0.60	10ND			
30S	8" Round Grate	Sand	10	0.60	10ND			
广	Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fittings and 6" Corrugated Pipe. ADA Compliant, see page 71.							



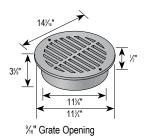
9P12	3 in. PVC Round Grate, Fits 3 in. Sewer & Drain Fittings	White	50	0.16	30pv
9P11	4 in. PVC Round Grate, Fits 4 in. Sewer & Drain Fittings	White	25	0.36	30pv



### **Round Grates, continued**



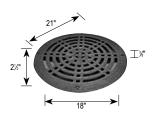
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications	
1040	10" Round Grate	Black	10	1.01	10ND	10" Round Structural Foam Polyolefin Grate with UV inhibitor.	
1050	10" Round Grate	Green	10	1.01	10ND		
1060	10" Round Grate	Gray	10	1.01	10ND		
1060S	10" Round Grate	Sand	10	1.01	10ND	Open surface area 21.57 square inches. 65.99 GPM.	
×	Fits 8" Sewer and Drain Pipe & Fittings, 8" ADA Compliant, see page 71						



1240	12" Round Grate	Black	6	2.44	10ND	
1250	12" Round Grate	Green	6	2.44	10ND	12" Round Structural Foam Polyolefin Grate with UV inhibitor. Open surface area 46.00 square inches.
1260	12" Round Grate	Gray	6	2.44	10ND	
	140.72 GPM.					



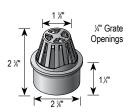
1511	15" Round Grate	Black	6	6.89	10ND	15" Round Structural
1512	15" Round Grate	Green	6	6.89	10ND	Foam Polyolefin Grate with UV inhibitor.  Open surface area
	Fits 15" Sewer and Drain Fittings, 15" Corrusee page 71.	gated Pipe.				85.60 square inches. 261.86 GPM.



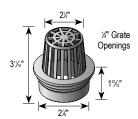
1801SDG	18" Round Grate	Green	1	7.50	28ND	Round Polypropylene Grate. Open surface area
	Fits 18" Sewer and Drain Fittings, 18" Corru See page 71.	igated Pipe, include	s Lag Bolt	ts.		75.55 square inches. 231.12 GPM. Includes lag bolts.

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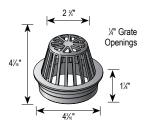
### **Atrium Grates**



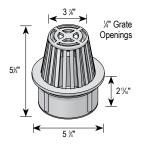
Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
270	2" Atrium Grate	Gray	20	0.10	10ND	Flat-Top PVC Atrium Grate with UV inhibitor. Open surface area 4.00 square inches. 12.24 GPM.
	Fits 2" Schedule 40 Fittings. Not for foot traffic.					



70	3" Atrium Grate	Green	20	0.16	10ND	
72	3" Atrium Grate	Gray	20	0.16	10ND	Flat-Top Structural Foam Polyolefin Atrium Grate
74	3" Atrium Grate	Black	20	0.16	10ND	with UV inhibitor. Open surface area 9.40 square inches. 28.76 GPM.
74S	3" Atrium Grate	Sand	20	0.16	10ND	
	Fits 3" Sewer and Drain Pipe & Fittings, 3"					



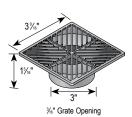
75	4" Atrium Grate	Green	20	0.21	10ND				
76	4" Atrium Grate	Gray	20	0.21	10ND	Flat-Top Structural Foam Polyolefin Atrium Grate			
78	4" Atrium Grate	Black	20	0.21	10ND	with UV inhibitor. Open surface area			
78S	4" Atrium Grate	Sand	20	0.21	10ND	17.00 square inches. 52.01 GPM.			
	Fits 4" Sewer and Drain Pipe & Fittings, 4"								



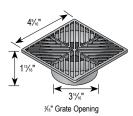
80	6" Atrium Grate	Green	10	0.62	10ND	Flat-Top Structural Foam Polyolefin Atrium Grate with UV inhibitor. Open surface area	
81	6" Atrium Grate	Gray	10	0.62	10ND		
90	6" Atrium Grate	Black	10	0.62	10ND		
90S	6" Atrium Grate	Sand	10	0.62	10ND	28.40 square inches. 86.88 GPM.	
	Fits Spee-D® Basin, 6" Sewer and Drain Pipe & Fittings, 6" Corrugated Pipe.						



### **Square Grates**



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
1	4" Square Grate	Green	40	0.11	10ND	4" Square Structural Foam Polyolefin Grate with diagonally converging pattern with UV inhibitor. Open surface area
2	4" Square Grate	Black	40	0.11	10ND	
3	4" Square Grate	Gray	40	0.11	10ND	
<b>汴</b>	Fits 3" Sewer and Drain Pipe & Fittings, 3" ADA Compliant/Heel-proof, see page 71.	3.45 square inches. 10.55 GPM.				

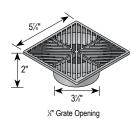


7	5" Square Grate	Green	25	0.20	10ND	5" Square Structural
8	5" Square Grate	Black	25	0.20	10ND	Foam Polyolefin Grate with diagonally converging
9	5" Square Grate	Gray	25	0.20	10ND	pattern with UV inhibitor.  Open surface area
广	Fits 4" Sewer and Drain Pipe & Fittings, 4" ADA Compliant/Heel-proof, see page 71.	4.25 square inches. 13.00 GPM.				

10

0.40

10ND



5	6" Square Grate	Green	10	0.40	10ND	6" Square Structural Foam Polyolefin Grate
6	6" Square Grate	Gray	10	0.40	10ND	with diagonally converg pattern with UV inhibitor
06S	6" Square Grate	Sand	10	0.40	10ND	Open surface area 10.40 square inches.
*	Fits 3" or 4" Sewer and Drain Pipe, 3" or 4" ADA Compliant/Heel-proof, see page 71.	Corrugated Pipe, ar	nd 3" or 4"	'Triple Wall	Pipe.	31.81 GPM.

Black

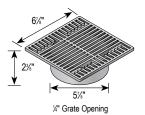
6" Square Grate



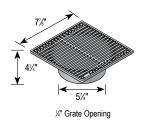
640	6" x 6" x 4" Square Grate & Adapter	Black	8	0.83	10ND	6"x6" Low-Profile Adapter
641	6" x 6" x 4" Square Grate & Adapter	Green	8	0.83	10ND	and Structural Foam Poly- olefin Removable Grate with UV inhibitor and
642	6" x 6" x 4" Square Grate & Adapter	Gray	8	0.83	10ND	stainless steel screws.  Open surface area
<b>†</b>	Fits 3" or 4" Sewer and Drain Pipe & Fitting Pipe. ADA Compliant/Heel-proof, see page	14.44 square inches. 44.17 GPM.				

# We put water in its place $^{\text{\tiny{M}}}$

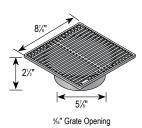
## **Square Grates, continued**



Part No.	Description	Color	Pkg. Qty.	Wt. Ea. (lbs.)	Product Class	Specifications
771	7" Square Grate	Black	10	0.65	10ND	
772	7" Square Grate	Green	10	0.65	10ND	7" Square Structural
773	7" Square Grate	Gray	10	0.65	10ND	Foam Polyolefin Grate with UV inhibitor.
773S	7" Square Grate	Sand	10	0.65	10ND	Open surface area 13.60 square inches. 41.60 GPM.
<b>†</b>	Fits Spee-D® Basin, 6" Sewer and Drain Pi ADA Compliant/Heel-proof, see page 71.	7.1.00 Gr III.				



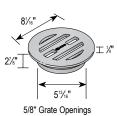
881	8" Square Grate	Black	10	0.79	10ND	
882	8" Square Grate	Green	10	0.79	10ND	8" Square Structural Foam Polyolefin Grate with UV inhibitor.
883S	8" Square Grate	Sand	10	0.79	10ND	Open surface area 17.16 square inches.
<b>汴</b>	Fits Spee-D® Basin, 6" Sewer and Drain Pi ADA Compliant/Heel-proof, see page 71.	pe & Fittings, 6" Co	rrugated F	Pipe and DV	VV Pipe.	52.49 GPM.



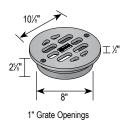
950	9" Square Grate	Green	10	1.11	10ND	
960	9" Square Grate	Gray	10	1.11	10ND	9" Square Structural
970	9" Square Grate	Black	10	1.11	10ND	Foam Polyolefin Grate with UV inhibitor.  Open surface area
980S	9" Square Grate	Sand	10	1.11	10ND	28.40 square inches. 86.88 GPM.
广	Fits Spee-D® Basin, 6" Sewer and Drain Pi ADA Compliant, see page 71.	pe & Fittings, 6" Co	rrugated F	Pipe.		0.000 C. IIII



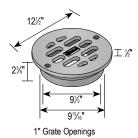
### **Duracast™ In-Line Grates**



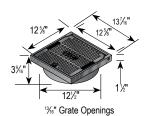
Part No.	Description	Product Class	Specifications			
D6	6" Round Grate	Black*	1	7.30	10ND	6" Round Heavy-Duty Ductile Grate with
	Fits 6" Corrugated and Sewer and Drain Pip D6 is not a custom grate and qualifies for no Fits SPEE-D® Basin.  *Painted for shipping & display only; grate w See page 71.	rmal NDS freight te				Black Paint. Open surface area 7.05 square inches. 21.57 GPM. H-20 load rating.



D8	8" Round Grate	Black*	1	14.59	10ND	8" Round Heavy-Duty Ductile Iron Grate with Black Paint.
	Fits 8" Corrugated and Sewer and Drain Pipe D8 is not a custom grate and qualifies for no *Painted for shipping & display only; grate with ADA Compliant, see page 71.	rmal NDS freight ter				Open surface area 13.98 square inches. 42.77 GPM. Bolt holes for added security. H-20 load rating.



D10	10" Round Grate	Black*	1	20.60	10ND	10" Round Heavy-Duty Ductile Iron Grate with Black Paint.
	Fits 10" Corrugated and Sewer and Drain Pip D10 is not a custom grate and qualifies for n *Painted for shipping & display only; grate w ADA Compliant, see page 71	ormal NDS freight to				Open surface area 26.82 square inches. 82.05 GPM. Bolt holes for added security. H-20 load rating.



D12H-WO	12" Square Hinged Cast Iron Grate	Black*	1	48.00	10ND	D12H-WO: H-20 load rating. Open surface area 48.30 square inches. 147.76 GPM
D12	12" Round Grate	Black*	1	16.00	10ND	12" Round Heavy-Duty Ductile Iron Grate with Black Paint Open surface area 55.16 square inches. 169.74 GPM. H-20 load rating



\*Painted for shipping & display only; grate will form iron-oxide patina ADA Compliant, see page 71..

Fits 12" Corrugated and Sewer and Drain Pipe.

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For Drainage Product Information, Refer to Technical Specification documents at **ndspro.com/specifications** 

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#### **Terms and Conditions of Sale**

**Terms:** Standard terms are NET 30 days. All invoices are to be paid in US Currency. Title and risk of loss pass to buyer upon shipment.

#### FREIGHT TERMS:

**Continental US:** Shipments that meet the \$2,000 prepaid freight minimum are DDP (Freight Prepaid). Shipments that do not meet the \$2,000 prepaid freight minimum are FCA NDS distribution center (Freight collect).

**Canada:** Shipments are CPT- Carriage Paid to customer's location in Canada. (Customer arranges customs clearance into Canada). No returns or refunds except for wrong or damaged product received.

All other international shipments: Shipments are FCA NDS distribution center. (Freight collect) All sales are final, no returns or refunds will be accepted/granted except for wrong product received.

International, Hawaii, Alaska, or Puerto Rico shipments delivered to a US intermediary (such as a freight forwarder or consolidator location in the continental US): Shipments are considered final upon receipt and checking at the US intermediary location

#### FREIGHT ALLOWANCE:

Prepaid levels are based on shipments to one location only. It is the responsibility of the customer to determine if your purchase order meets the minimum freight allowance required. NDS reserves the right to select the carrier and point of shipment.

**Shipments within the Continental US:** Freight prepaid on orders of \$2,000 NET, or more.

Shipments to Canada, Alaska, Puerto Rico: Freight prepaid on orders of \$2,500 NET, or more.

Shipments to Hawaii:

Freight prepaid on orders of \$3,500 NET, or more.

Shipments to Canada, Alaska, Hawaii, Puerto Rico orders that contain EZ Flow: Freight prepaid on orders of \$4,000 NET, or more.

**Errors & Claims:** All claims for shortage in shipment or damaged material must be noted on the "Bill of Lading" and a written request for credit submitted to NDS within 15 days of shipment. NDS responsibility ceases upon delivery to the carrier.

**Returned Goods:** Returned goods will be accepted only after written approval and shipping instructions are received from NDS. A return goods authorization number is required and must be on all cartons, documents, and correspondence. All returns are subject to a 25% restocking charge, freight cost of returned goods (plus "out freight if applicable"). A higher restocking charge may be assessed against any return requiring extraordinary handling costs.

Minimum Order: \$100.00 minimum order net billing.

**Broken Box Charge:** A 25% broken box charge will be added for other than full box quantities. 21DI Drip Components, 25DS Dura Slope Channel and 25FC Filcoten Channel are excluded from this policy.

Limited One Year Warranty: The liabilities of NDS are limited solely and exclusively to replacement as set forth in our standard "Statement of Warranty", alone and do not include any liability for incidental, consequential or other damage of any kind whatsoever, whether any claim is based upon theories of contract, warranty, negligence or tort and without any limitations and do not include shipping charges, labor, installation or any other losses or expenses incurred in operation of any replacement specialty item or fitting. NDS drainage products are designed to be used for exterior surface drainage only.

All NDS products are guaranteed against defects resulting from faulty workmanship or materials. Claims for labor costs and other expenses required to replace defective products or repair of any damage resulting from the use thereof will not be allowed by NDS. Our liability is limited to replacement of products acknowledged by NDS to be defective.

Exclusive Warranties and Remedies: The foregoing remedies are exclusive and are given and accepted in lieu of (I) any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for particular purpose; and (ii) any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from NDS, Inc.'s negligence, actual or imputed. The remedies of customer shall be limited to those provided herein to the exclusion of any and all other remedies including, without limitation, incidental or consequential damages. No agreement varying or extending the foregoing warranties or these limitations will be binding on NDS, Inc., unless such is signed in writing by an authorized officer of NDS, Inc.

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