



Trench Drain Catalog

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Recent Projects:

Shipyard Brewing, MN

Tri Star Fish Market, CA

Little Red Barn Brewers, CT

Immudyne Labs, FL

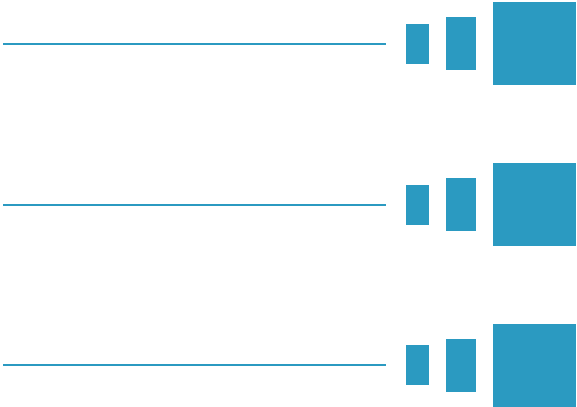
Town of Darien, CT

Jeep Chrysler, CT

Louis Vuitton, NY

Seneca Animal House, SC

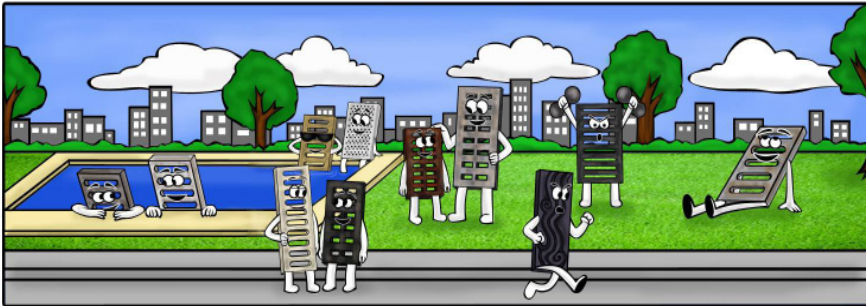
Wykees Homeowners Association, Bahamas



Innovative Products for Innovative Designs



Trench Drains



How to select the right trench drain?

When selecting the right trench drain, the following factors should be considered:

Load bearing- How much weight will the trench drain-need to bear. Load is classified into different load classes (light, medium and heavy). Choosing the appropriate load bearing is determined by the type of traffic.

Type of traffic- pedestrians, cars, trucks, forklifts airplanes and wheel load

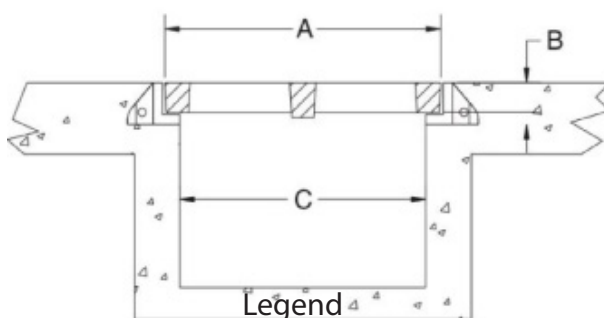
Drain sizing- Depending on expected flow rates, most drains will be 4", 6" or 8".

Channel Selection- Choose the right channel with heavy duty enhanced concrete, HDPE, cast iron, stainless steel and pvc options.

Grate Selection- Choose the right grate with different material, size and slot style options

Material- cast iron, ductile iron, stainless steel, hdpe, polyethylene, galvanized steel, bronze, fiberglass

Standard Trench Drain Installation



||  Width
A ||  Load class

Swift drains are linear drainage systems used to catch and convey water and other liquids. Often made of cast iron, steel or polymer grates and a channel consisting of an enhanced concrete, stainless steel, cast iron or polyethylene. Trench Drains are used in a variety of different commercial and residential applications.

Swift drain Trench Drain Systems

2019

Swift drain Trench Drain Selection Checklist



Load Bearing

How much weight will the trench drain require to hold?

Loading

Class A - 1 -160 PSI

Class B - 61-175 PSI

Class C - 176 -325 PSI

Class D- 326 -525 PSI

Class E - 525 - 650+ PSI

Site Requirements

What site requirements and user factors are there?

Site Check

Depth- are there any depth restrictions?

Chemicals- will there be aggressive or caustic chemicals?

Extreme temperatures- will there be freeze and thaw cycles or hot liquids?

ADA- Will the grates need to be suitable to bear crutches and wheel chairs?

Bike Proof- Will there be bicycle traffic?

Anti-slip- Will there be pedestrians crossing under wet conditions?

Heel Proof- Will the grate slots need to be heel proof?

Safety and Locking- Will bolt downs be required?

Aesthetics- Do the grates need to be designer or decorative?

Hydraulic Design

How much liquid will need to be drained?

Hydraulics

Pre Slope or Neutral

Required Flow Rate

Channel Flow Capacity

Hydraulic Design

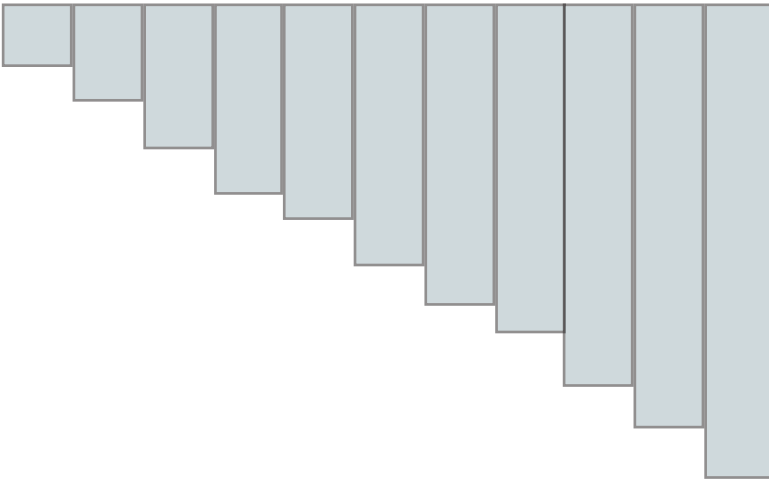
Slope Design

Neutral Slope

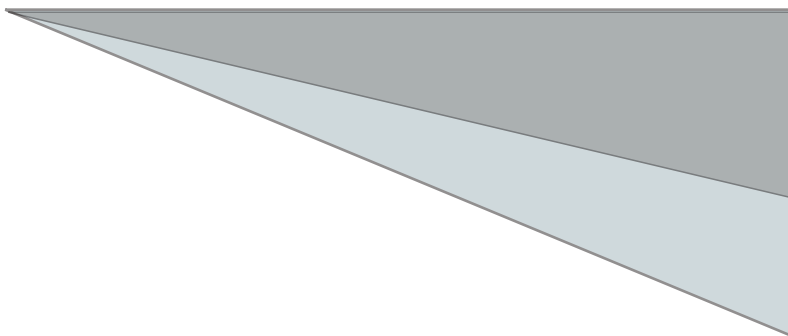


Neutral Slope- Straight linear, no pitch, no rate of change

Step Slope



Step Slope- External rate of change with different external channel depths



Continuous Slope- Constant rate of change, typical slopes are .5%, .7%, 1%, 1.5% and 2.0%

Swiftslope by Swift drain is a continuous slope of .05% - 2.0%

Determine slope based on Flow rate requirements and site terrain



Hydraulic Design

Water Flow Design

Flow Rate Calculations

Required water flow = Q_r

$$Q_r = CIA$$

$$Q_r = C * I * A$$

Let C = surface constant (pavement use 0.9)

Let I = water fall intensity

Channel Flow Capacity = Q_c

$$Q_c = A * (1.49/n) * (R)^{2/3} * (S)^{1/2}$$

Let A = cross sectional area of the trench drain in square feet

Let n = the coefficient of friction of the trench drain body

concrete forming systems = 0.013

polymer concrete systems = 0.010

fiberglass & GFRPC systems = 0.009

Let R = the hydraulic radius which is calculated by

$$\text{Hydraulic radius} = A / P$$

A = the cross sectional area found above the trench

P = the perimeter surface of the trench

Let S = bottom effective slope of the trench

Effective slope = site slope + built in slope of trench drain

Trench Drains

Swift drain 5, 8 and 12



Residential line

HDPE channels
Grates- Ductile Iron, Galvanized Steel, Polymer
5", 8" and 12" wide
Comes in 1 meter sections
ADA, Bike Proof, Heel Proof

	5" wide		A, B, C, D	
	8" wide			
	12" wide			

Swift drain 600



Commercial line

HDPE channels
Grates-Ductile Iron Cast Iron, Galvanized Steel, Stainless Steel
Fiberglass, Polymer
Chemical Safe, ADA, Locking and Bolt Down, Bike Proof
Heel Proof, Anti Slip

	6" wide		A, B, C, D	
--	---------	--	------------	--

Swift drain HD

100, 200 and 300



Industrial and Heavy Duty line

Concrete Channels with galvanized steel edges
Grates- Ductile Iron, Cast Iron, Galvanized Steel, Stainless Steel,
Fiberglass, Polymer
ADA, Locking and Bolt Down, Bike Proof, Heel Proof, Anti Slip,

	5" wide		A, B, C, D, E	
	8" wide			
	12" wide			

Swift drain Trench Drain Systems

2019

Swift drain Quicksilver Stainless



Stainless line

Stainless Steel Channels
Grates- Stainless Steel
6", 8" and 12", 14" and 16" wide
Comes in 6 foot sections
Chemical Safe, ADA

	6" wide		A, B, C, D	
	8" wide			
	12" wide			

Swift drain Brewmaster



Brewery Line

HDPE channels
Grates- Stainless Steel
Comes in 2 foot sections
Chemical Safe, ADA

	6" wide		A, B, C, D	
--	---------	--	------------	--

Residential

Residential Trench Drains

Drains are an integral part of any home. A good drainage system will keep the house free from water accumulation caused by improper slope that can result in foul smell, seepage and mold. During spells of excess rainfall many residences face the problem of water accumulation in their foundation, basements, driveways and yards. Not only does it look unsightly, it can ruin the landscape and cost a fortune to get the damage repaired. Residential trench drains serve the purpose of removing surface water from storm water runoff and excess rainfall by diverting it effectively from areas prone to flooding.

Why use Residential Trench Drains?

Trench drains are so versatile that using it for residential application is as easy as it comes. With a wide variety of sizes and patterns to choose from, trench drains are no more eye sores in an otherwise lovely landscape.

Trench drains can be customized based on individual

Materials used to make trench drains are strong with high compressive strength and low porosity such as cast iron, steel, polymer concrete and fiberglass. They are easy to assemble within a trench and need to be set in concrete to help attain integrity required for a good drainage system.

Trench drains can be used within the house such as in the shower room, indoor garden, external kitchen and porch.

Trench drains can be used outside the house for swimming pools, gardens, downspouts, barns, outhouse, driveways and sidewalks.



Commercial

Commercial Trench Drains

While drainage is commonly associated with runoff from rainfall, it is equally applicable in commercial establishments such as food processing units, chemical factories and vehicle service centers. Industries that utilize processes that require the use of cleaning agents need to have a good drainage system in place. Surface storm water runoff near commercial establishments such as offices, warehouses and parking areas also need to be managed in order to prevent clogging of storm water drains.

Why use Commercial Trench Drains?

Commercial trench drains are available in a number of visually appealing decorative designs. These trench drains are eco-friendly and adhere to safety norms such as Americans with Disabilities Act (ADA).

Public places such as parks, pools and water fountains utilize decorative commercial trench drains and grates that adhere to ADA for the benefit of pedestrians and tourists in order to enable them to walk over freely.

These trench drains with decorative grates are also great for use near office buildings and businesses.

Parking areas also require trench drains and should be installed in such a way that vehicles never run over the length of the grate.

It is a good idea to install trench drains in warehouses that store goods. Excess rainwater or storm water runoff can be easily directed away from the warehouse by installing trench drains on the periphery.

Industrial units that run manufacturing processes utilizing water need a good drainage system to eliminate the excess water.

Some industrial processes also require the use of strong cleaning agents to get rid of manufacturing by products. These cleaning agents should be directed away from the working area to prevent contact with or inhalation of harmful fumes by workers.

Commercial trench drains ensure that hygienic conditions are maintained in the facility at all times and Occupational Health and Safety Administration (OSHA) requirements for workers are also met. Trench drains also prevent percolation of harmful chemical residue to the ground because of the low porosity of the drain material used.

Swift drain 5, 8,12

Residential

For faster installation, go with the Swift drain Sierra trench drain. This unique channel locking design and channel makes installation simple, but also allows for flexible layouts.

This plastic drain system is a suitable commercial and residential alternative to traditional concrete drains. Whether you need to prepare for a new pool or provide driveway drainage, the Swift drain Sierra modular trench drain has you covered. Choose the color and sizes best suited to your needs. This system comes in 5", 8" and 12" wide configurations

Features

- Alternative to traditional concrete drains
- Interlocking joints allow for simple assembly and installation
- Modular design lets you create custom layouts
- Easily connects to existing pipes and fittings
- Designed to withstand concrete expansion and contraction
- Components resist fading and cracking from the sun
- Chemical-resistant and rustproof for long-lasting use
- Multiple sizes and colors available



Swift drain 5

Channel Length	40"
Channel Width (OD)	5- 1/2"
Channel Width (ID)	4- 1/2"
Outlet Sizes	3" , 4" and 6"
Available Depth	3" and 5"
Max. Flow Rate	69.34" GPM per foot



AVAILABLE MATERIALS
Cast iron, steel, polymer, decorative



f
||  5" wide ||  Class C

\$35 per
linear
foot

Swift drain 8

Channel Length	40"
Channel Width (OD)	8 - 1/4"
Channel Width (ID)	6- 7-8"
Outlet Sizes	3" , 4" , 6" S&D
Available Depth	4 - 1/2" , 7 1/4"
Max. Flow Rate	89.78 GPM per foot



AVAILABLE MATERIALS
Casti iron, steel, polymer, decorative



||  8" wide ||  Class C

\$51 per
linear
foot

Swift drain 5, 8,12

Swift drain 12	
Channel Length	40"
Channel Width (OD)	20" and 40"
Channel Width (ID)	12 - 1/4"
Outlet Sizes	3", 4", 6" S & D
Available Depth	5 - 1/2", 10 - 1/2"
Max. Flow Rate	132.84 GPM, per foot



AVAILABLE MATERIALS
Casti iron, steel, polymer, decorative



||  12" wide ||  Class C

Lightweight and Durable

The Swift drain Sierra trench drain system features a watertight and structurally compact polypropylene and polyvinyl chloride construction. This lightweight plastic composition is not only durable, but it also contains UV inhibitors to prevent fading and cracking in the sunlight. Thick channel walls and side ribs in the design further add to each component's durability. Given its plastic construction, these trench drains work best for pedestrian use like on a sidewalk or patio.

Simple Installation

Its innovative design and interlocking components allow for fast and easy install. The channels have a clip-in feature for creating simple and secure channel-to-channel connections. These trench drains also use interlocking joints instead of traditional coupling. Designed for hard-scape installation, the joints can withstand concrete expansion and contraction. Rebar tie-clips are included too for easy attachment to rebar stakes for anchoring. Using the Swift drain will save you time and installation costs

Swift drain 5, 8, 12

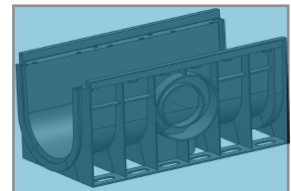
Range of Options

With the Swift drain Sierra trench drain system, you have choices. Choose from a range of colors, widths, lengths, and depths. Deep drains work best for heavy flows while shallow drains fit best in slabs or other areas with little fall depth.

Modular Design



Featuring multiple size options and an interlocking design, this drain system offers flexibility. The channel sections snap together to create longer runs or divided down to four-inches for smaller sections. The series also connects to sewer drainpipes and fittings or SCH 40 pipe and fittings easily. Plus, you can connect side and bottom outlets anywhere along the channel run. You'll have no trouble creating the custom layout your home or business needs.



Residential or light Commercial Use

Install the Swift drain Sierra Series at your home or commercial property. Its lay-flat design is safe to walk over and wheelchair friendly too. This line is ideal for patios, pool decks, athletic fields, spas, and driveways. Choose from light traffic and heavy traffic channel grate options depending on the location. Heavy traffic options in this line can withstand medium-duty pneumatic tire traffic and autos and light trucks driving under 25 mph.



Swiftdrain 600

Swiftdrain 600

6 inch wide pre sloped trench drain system



Features:

- Easier handling and installation than concrete systems
- 1% pre-sloped channels maintain optimal flow rates
- HDPE material offers high chemical resistance and durability
- Locking grates for stability
- Channels come numbered with arrows for easy install
- Components join together without couplers
- Drain from end of outlet or built-in bottom outlet
- Multiple channel depth and grate options available

\$42.50 per linear foot with ductile iron grates

When it comes to HDPE and Fiberglass channel trench drain systems the Swiftdrain 600 is the most customizable and dependable. It's continually the go-to drainage solution for driveways, parking areas, warehouses, loading docks, pools, wash-down areas, athletic fields, and other areas that experience surface run-off.

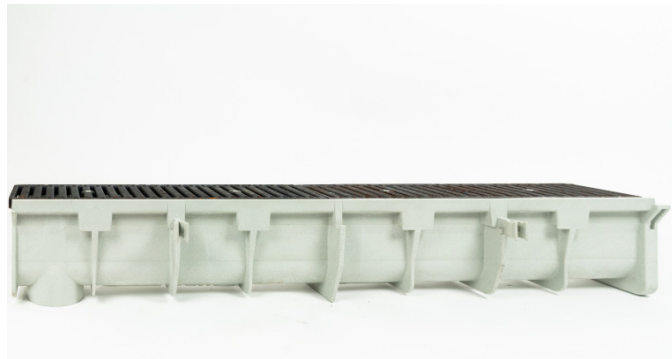
Durably made from HDPE, the Swiftdrain 600 system offers the strength of a concrete trench system without the costly installation. Instead, this modular system uses interlocking 1.0% sloped and neutral channels--no couplers required.

Simply choose amongst its many design, color, and size options to create a custom trench drain system that meets the drainage needs of your residential, commercial, municipal, or industrial property.



SWIFT DRAIN

Swift Drain 600



Channel Length	8'
Channel Width (OD)	7"
Channel Width (ID)	4.25"
Outlet Sizes	4", 6" or 8"
Available Slope	1%
Max. Flow Rate	67.58 GPM per foot

- 1** **Easy to Install**
The system's lightweight modular components allow for easier handling and installation. Each channel has a locking connection with tabs that hold the channels together. In addition, the pieces are marked with numbers and arrows to avoid mistakes during install.
- 2** The SwiftCatch catch basin with optional trash bucket also locks in with the same tongue and groove connection. For this system, you only need screws to secure the grates and cap off the outlets that aren't in use. Compared to installing a traditional concrete system, installing this plastic trench drain system is budget-friendly and fast
- 3** **Variety of Grate Options Available**
The Swift Drain 600 system offers a wide selection of grating, including ADA-compliant and heel-proof options. Its plastic grates come in two patterns and seven colors--black, white, gray, dark gray, green, sand and brick red. They are rated for pedestrian and light traffic use.
- 4** Swift Drain galvanized and stainless steel grates have a pedestrian and heavy traffic load rating. These materials resist corrosion and are easy to sanitize. They work great in industrial and sanitary applications like chemical plants or breweries. Other options include cast iron, ductile iron, and decorative ductile iron. When used with the optional ductile iron frame, the cast and ductile iron grates provide
- 5** Completely customizable. Runs can be extended upwards of 180 linear feet. Accessories like right angle corners, end caps, end outlets, y's and t's can solve any drainage layout challenge.
- 6** Channels have anchors for rebar which prevent them from floating during installation.

Full range of Grate options and styles available

Swift drain 600

Polymer Grates

Class A
Light duty
Comes in slotted, ADA and Perforated

AVAILABLE COLORS:



||  6" wide ||  A ||



Ductile Iron Grates

Class C and Class D
Medium and Heavy Duty
Comes in slotted, ADA and Perforated

AVAILABLE COLORS:



||  6" wide ||  C D ||



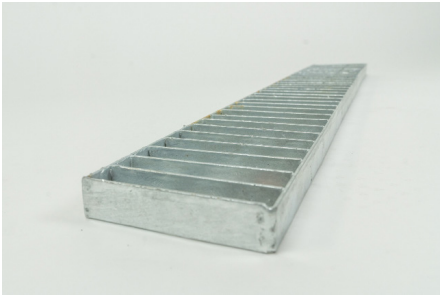
Stainless Steel Grates

Chemically Resistant Grates. Stainless 316.
Withstands high temperatures and caustic chemicals
Sanitary

AVAILABLE COLORS:

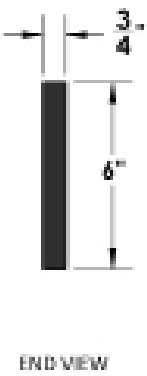
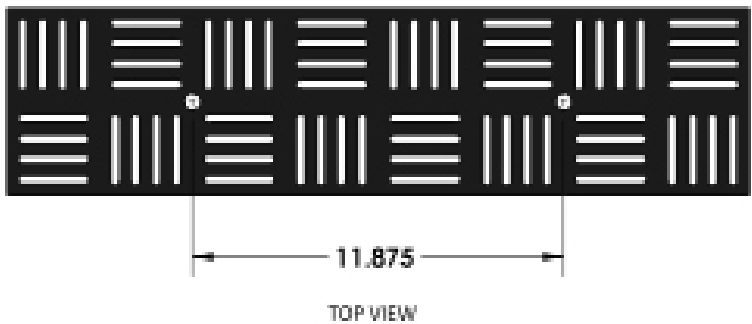


||  6" wide ||  C ||



 Installation kit which includes end caps, end outlets, bolt down screws and bottom outlet adaptors

Swift drain 600



Galvanized Steel Grates

Rust resistant
Withstands harsh climates
Comes in Slotted or Perforated

AVAILABLE COLORS:



 Trench grates and pre sloped channels

Pre Sloped Channel Chemical Resistance Swift drain 600

HDPE Chemical Resistance Chart

Grade -- Chemical Effect

- **A = Excellent.**
- **B = Good** -- Minor effects, slight corrosion or discoloration.
- **C = Satisfactory** -- moderate effects, not recommended for continuous use. Degradation may occur
- **F= Fail**, not recommended for use.

Chemical	Compatibility
Acetaldehyde	C-Satisfactory
Acetamide	A-Excellent
Acetate Solvent	A-Excellent
Acetic Acid	A-Excellent
Acetic Acid 20%	A-Excellent
Acetic Acid 80%	A-Excellent
Acetic Acid, Glacial	A-Excellent
Acetic Anhydride	C-Satisfactory
Acetone	
Acrylonitrile	A-Excellent
Adipic Acid	A-Excellent
Alcohols: Amyl	A-Excellent
Alcohols: Benzyl	B-Good
Alcohols: Diacetone	A-Excellent
Alcohols: Ethyl	A-Excellent
Alcohols: Isobutyl	A-Excellent
Alcohols: Isopropyl	A-Excellent
Alcohols: Methyl	A-Excellent
Allyl Chloride	A-Excellent
Aluminum Chloride	A-Excellent
Aluminum Chloride 20%	A-Excellent
Aluminum Fluoride	A-Excellent
Aluminum Hydroxide	A-Excellent
Aluminum Potassium Sulfate 10%	A-Excellent
Aluminum Potassium Sulfate 100%	A-Excellent

Among many of the positive attributes of polyethylene, it is best known for its resistance to caustic chemicals. HDPE also provides strength and toughness to channels

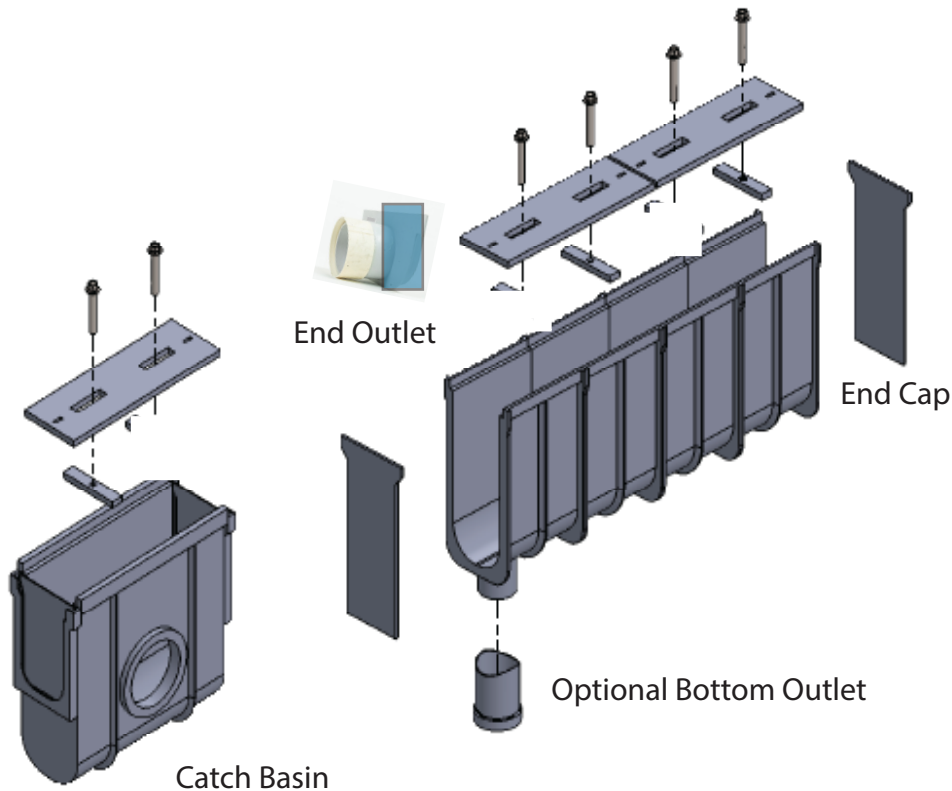
The following observations were conducted under Guidance of ASTM D543 the Standard Test Method for Resistance of Plastics to Chemical Reagents

This chemical resistance chart illustrates how HDPE will fair under these environments with all other factors equal.

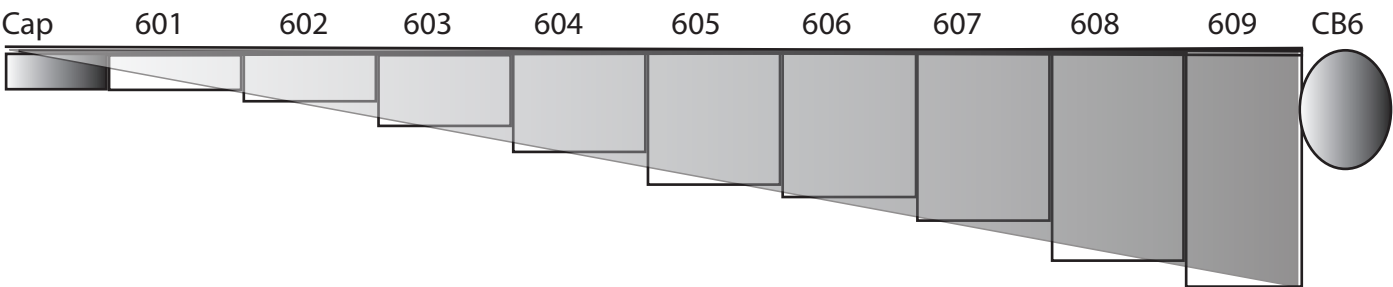
Full Chemical resistance chart in appendix

Pre Sloped Channel Specifications

Swift drain 600



Continuous Sloped Channels. Slope .5% - 2%. Neutrals available in every section.



Part	601	602	603	604	605	605	607	608	609	N
Depth	4.5"	5.5"	6.5"	7.5"	8.5"	9.5"	10.5"	12.5"	13.5"	14.5"
Flow	84	92	109	118	129	137	146	168	189	404

Heavy Duty Trench Drains

Swift drain Concrete

Swift drain “Polycrete” Concrete is an innovative concrete composite with industry leading tensile strength and flexural strength. Heavy duty trench drains collect and convey storm water and other liquids for commercial and industrial applications such as warehouses, loading docks, airports, roadways and parking lots. The Swift drain Concrete channel sections are made from an enhanced concrete matrix which is stronger, lighter and more durable than other materials. Swift drain’s Polycrete Concrete material is 100% recyclable, made with all environmentally friendly materials and handles extreme temperatures and chemicals. The high density of the compound in this concrete allows Swift drain Polycrete Concrete to withstand high impacts and bear heavy loads, making it ideal for any high load bearing drainage site.



Long Lasting Durability

Swift drain “Polycrete” Concrete Trench Drain Systems offers superior impact resistance making it less likely to warp and degrade over time. The Swift drain Polycrete concrete drainage channel is temperature and UV-resistant. This makes it functional in freeze and thaw cycles and allows the channel to expand and contract with the surrounding concrete. Swift drain “Polycrete” Concrete trench drains can withstand high load capaci-

The Swift drain “Polycrete” Concrete channel system has anchoring ribs which allow it to securely adhere to the surrounding concrete. The unique design of the galvanized steel rails allows an added layer of safety and security. The channels can be extended sloped upwards of 195 feet.



- Galvanized steel rails with frame locking device
- Smoother than traditional concrete
- Articulated ribs

Features:

Composed of high-performance fiber polymer concrete
Impact-resistant--20 times stronger than the competition
Environmentally friendly design
Vertical outlet possibility on every channel offers versatility
Galvanized steel rails for secure grate locking
Temperature, frost, and UV resistant for a longer product life
Resin-free construction is rated A-1, non-combustible
Suitable for commercial and residential applications

Use Cases

- Warehouses, loading docks, parking lots, roadways
- Airports, Industrial Applications, Factories, Processing Plants
- Heavy duty exterior and interior applications
- High wheel load applications.



HD 100, 200, 300

Swift drain Heavy duty

100

200

300

Smart materials and ingenuity set Swift drain Polycrte Concrete trench drains system apart from the competition. It features the stability of a traditional concrete channel along with the many benefits of a concrete composite like superior strength, durability, and environmental-friendliness. Designed for handling a high load capacity, Swift drain Polycrte Concrete is a smart choice for industrial settings like parking lots, garages, and factories. Thanks to its sleek style and wheel chair, heel-friendly and plastic grate options, Swift drain Polycrte Concrete also works well for pedestrian and residential applications.

Swift drain Polycrte Concrete includes a range of accessories, multiple grate variations, and both neutral and sloped channels. All channels have a vertical outlet possibility for versatile installation and feature a smooth inner surface to achieve the best flow and a self-cleaning effect.

Durable and Element-Resistant

Whether you need roadside drainage or drain channels in your plant floor, you can count on the System. Its fiber-reinforced concrete construction offers superior impact resistance that's twenty times stronger than the competition. Plus, it's durably built to withstand the elements, including fire. Resistant to temperature, frost, and UV rays, this system has less contraction and expansion for a longer product life. It's also more crack- and break-resistant than traditional concrete systems, allowing for easier transport and installation.

Secure Installation

The Swift drain Polycrte system's intelligent design ensures a stable and secure installation. All channels have specially engineered anchoring ribs that create better adhesion with the surrounding concrete for maximum stability. For a secure channel-grate connection, the channels have an integral galvanized steel rail that securely holds the grates in place via a secure fix-connection self-locking system. Anti-sliding lugs on the grate further secure the grate-channel connection and prevent longitudinal shifting. Optional accessories include anti-vandal locking devices to ensure only authorized personnel remove the grates.

Variety of Grate Options

With the Swift drain trench drain series, you have choices. Choose from seven different grate variations, including wheel chair and heel-friendly options. Made from galvanized steel, ductile iron, or plastic, the grates range in their load bearing rating from class A to class E. For high load capacity applications, go with the slotted ductile iron grates. They have a class E rating, making them suitable for high-speed traffic and hard-wheeled forklift traffic. Opt for the black honeycomb plastic grates to handle pedestrian traffic and add curb appeal.

Polymer Concrete

HD 100 200 300



100

5" wide heavy duty grate
Concrete Channel
Galvanized Steel Frames

AVAILABLE GRATE MATERIAL: DUCTILE IRON
GALVANIZED STEEL, POLY, STAINLESS



|| 5" wide || Class D-E



200

8" wide heavy duty grate
Concrete Channel
Galvanized Steel Frames

AVAILABLE GRATE MATERIAL: DUCTILE IRON
GALVANIZED STEEL, POLY, STAINLESS



|| 8" wide || Class D-E
\$61 per
linear foot



300

12" wide heavy duty grate
Concrete Channel.
Galvanized Steel Frames

AVAILABLE GRATE MATERIAL: DUCTILE IRON
GALVANIZED STEEL, POLY, STAINLESS:



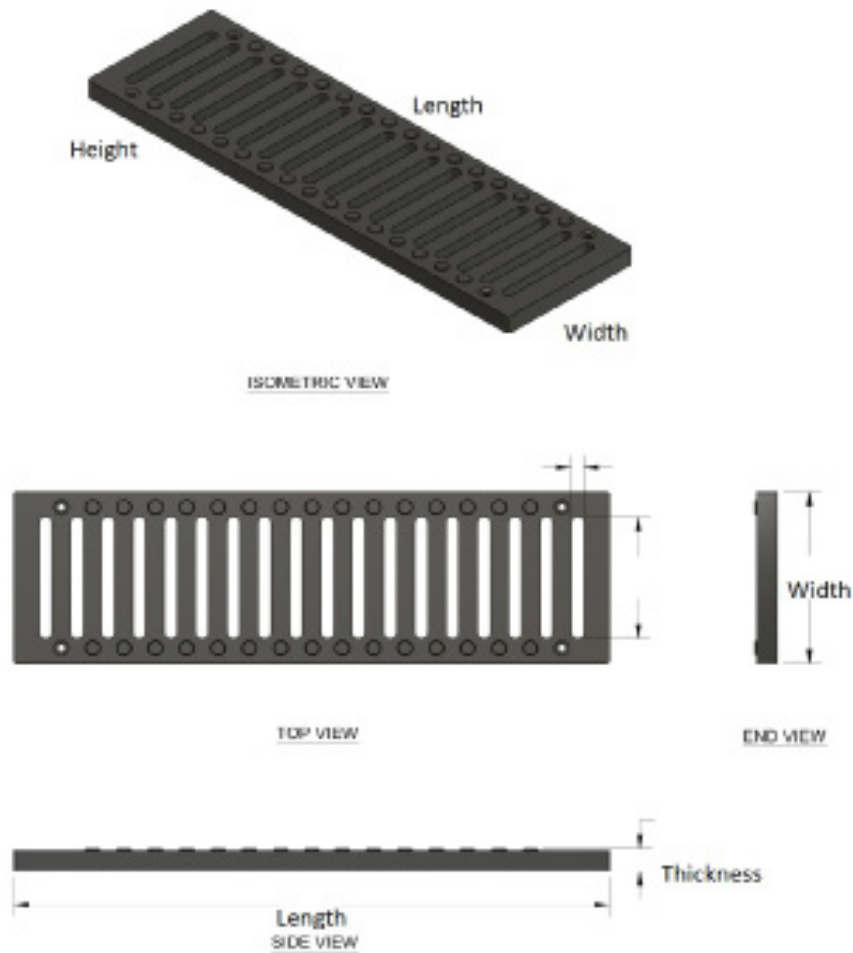
|| 12" wide || Class D-E
\$116 per foot

Swift drain Heavy Duty Polymer Concrete Trench Drain System

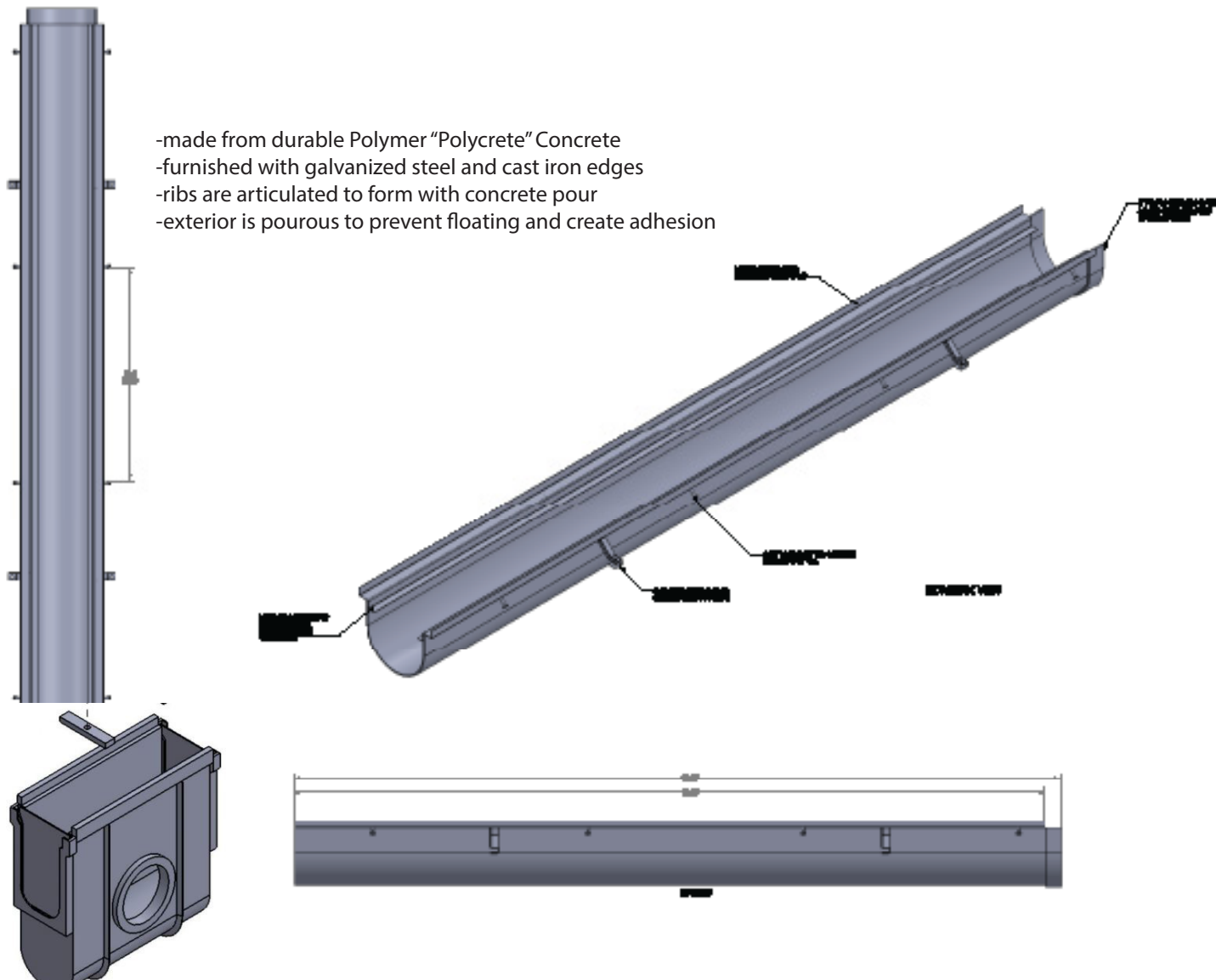
HD 100

HD 200

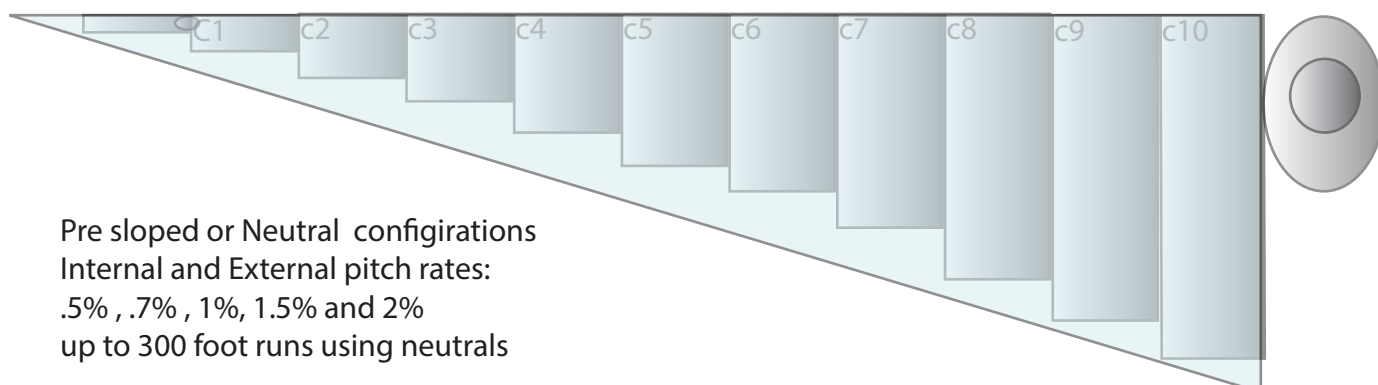
HD 300



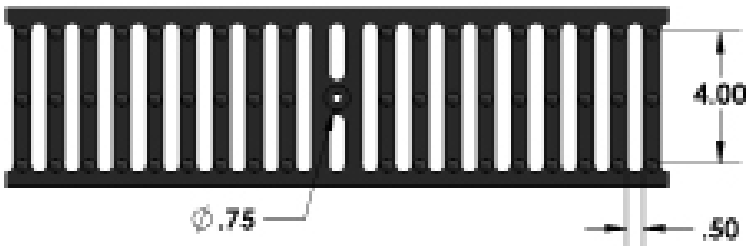
Model	Width	Height	Length	Load Bearing	Material	Options
100	5"	3/4"	20" 40"	A, B, C,D	Ductile iron, galvanized steel, fiber- glass, stainless steel	ADA, Bolt down locking, decorative,, slotted
200	8"	3/4" 1"	20" 40"	A,B,C,D,E	Ductile iron, galvanized steel, fiber- glass, stainless steel	ADA, Bolt down locking, anti slip, slot- ted, solid
300	12"	3/4" 1" 1.5" 2"	20" 40"	A,B,C,D,E,F	Ductile iron, galvanized steel, fiber- glass, stainless steel	ADA, Bolt down locking, anti slip, mesh, slotted, solid



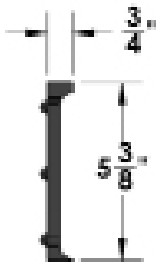
Part	c01	c02	c03	c04	c05	c06	c08	c09	c10	N
Depth	4.5"	5.5"	6.5"	7.5"	8.5"	9.5"	10.5"	12.5"	13.5"	6.5"
Flow	84	129	289	307	409	599	609	701	877	



Swift drain HD 100 Polymer Concrete Channel with Ductile Iron Grate



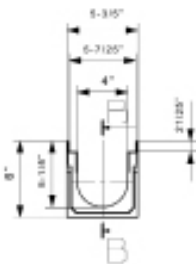
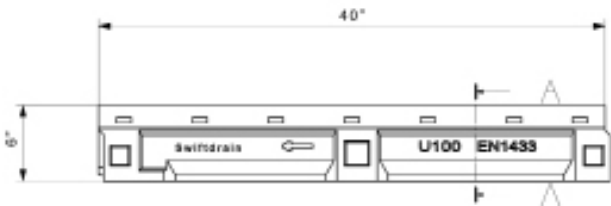
TOP VIEW



END VIEW



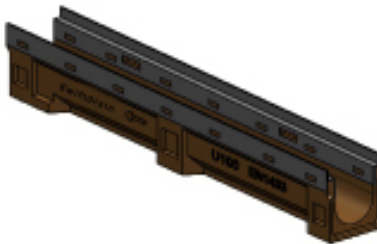
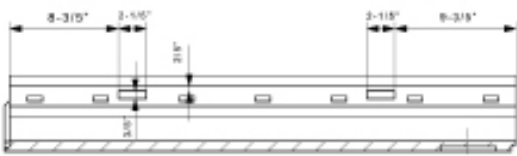
SIDE VIEW



SECTION A-A



SECTION B-B

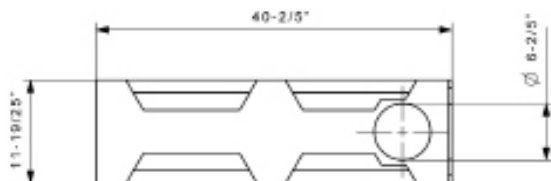
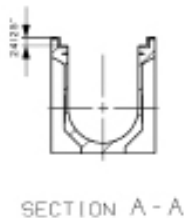
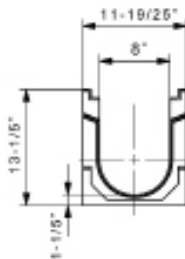
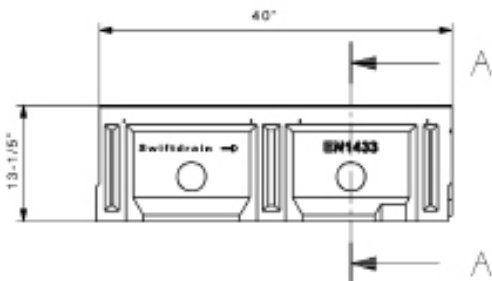
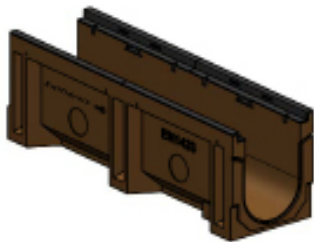
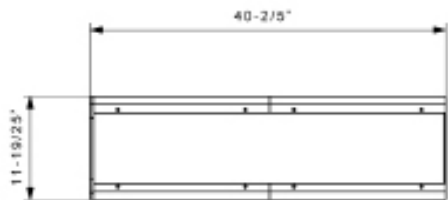
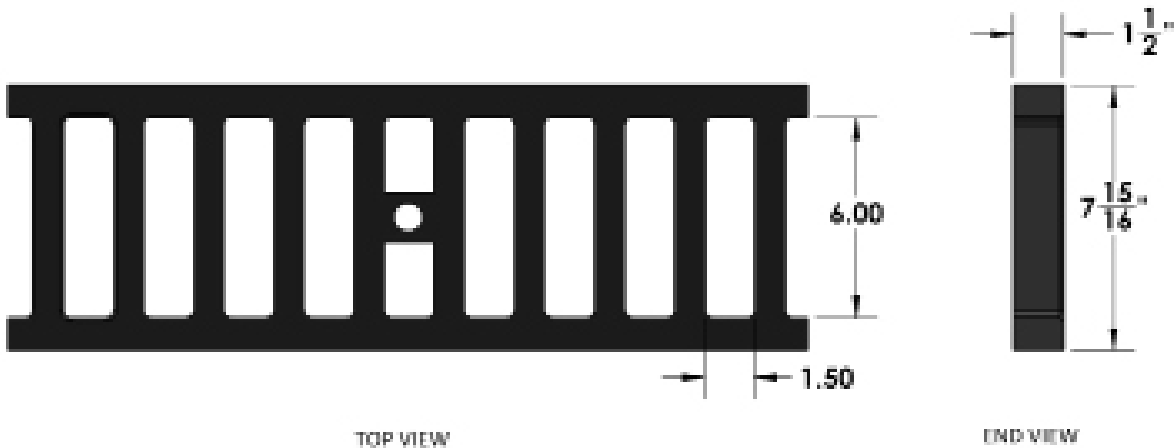
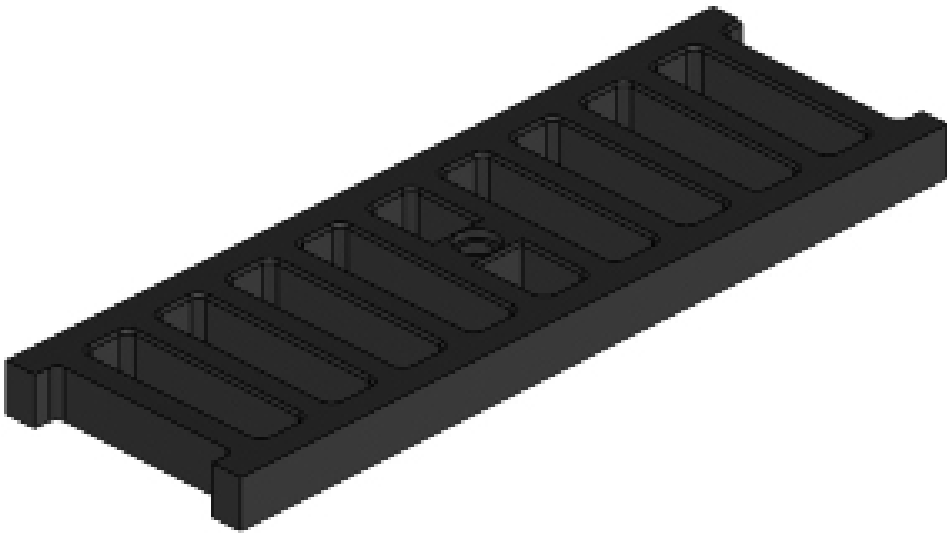


Swift drain 100	
Polymer concrete trench drain	
FIRST ISSUED	
DRAWN BY	
CHECKED BY	
APPROVED BY	
SIZE AND NO.	U100-2015065
SCALE	1:10
SHEET 1 OF 1	

3D CAD MASTER PART NAME:

ALL DIMENSIONS IN MM

Swift drain HD 200 Polymer Concrete with Ductile Iron Grate

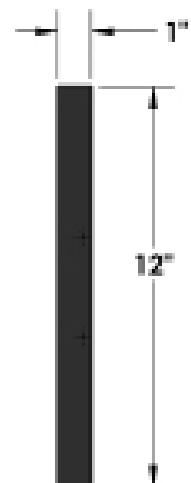


Swift drain 200	
FIRST ISSUED	
DRAWN BY	
CHECKED BY	
APPROVED BY	
STANDARD NO.	U200-47330C1-01
SCALE	1:10
SHEET 1 OF 1	

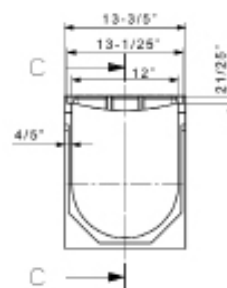
ASTER PART NAME:

ALL DIMENSIONS IN Mm

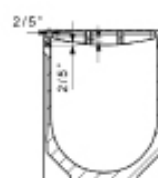
A dark gray, rectangular, textured surface, possibly a book cover or endpaper, with a repeating pattern of small, raised, rectangular blocks. The pattern consists of two rows of these blocks, each row containing ten blocks. The blocks are arranged in a grid-like fashion, with small gaps between them. The surface has a slightly grainy texture, and the lighting creates subtle shadows, giving it a three-dimensional appearance.



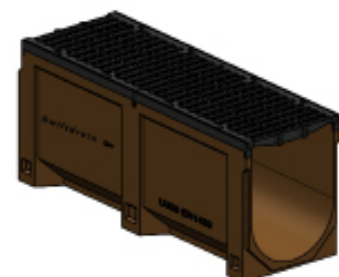
END VIEW



SECTION A - A



SECTION B-B



SECTION C-C

		Swift drain 300	
PURCH. INVOICE		Polymer concrete trench drain	
ORDER OF			
CHECKED BY			
APPROVED BY		DATE	
		8/2	

ALL DIMENSIONS IN MM

Quicksilver Stainless



Properties of Stainless Steel

- Resistant to corrosion
- Resistant to heat and fire
- Low weight and high strength
- Easy to fabricate
- Hygienic and easy to clean
- Aesthetically appealing
- Does not require painting
- High ductility and formability
- High durability
- Long service life

Swift drain Stainless Steel Trench Drain

Stainless steel is a low carbon alloy consisting of iron mixed with other elements such as nickel, chromium, manganese, and silicon. The end product will depend on the amount of various elements added to the iron. Chromium is an integral part of stainless steel and is present in a minimum quantity of 10%. Chromium forms a tough, corrosion resistant chromium oxide film on the steel surface that is self-healing when damaged by chemicals.

Swift drain Quicksilver

The Swift drain Quicksilver series can come in various configurations to fit any design:

- SS trench drain 6", 8", 12" and 16" wide with SS grating
- Heel proof SS slot trench drain (5/16")
- Standard SS slot trench drain
- Mini 3" wide SS channel/ grating for use with outlet box
- Comes in either 304 or 316 stainless steel



Channel Length	6'
Channel Width (OD)	6", 8" and 12"
Channel Width (ID)	4.25"
Outlet Sizes	4", 6" or 8"
Available Slope	1%
Max. Flow Rate	67.58 GPM per foot

Stainless Steel for Trench Drains

Trench drains are used for the purpose of drainage in commercial, industrial and residential units. Stainless steel trench drains are preferred in places where its properties such as aesthetics, durability, heat resistance, resistance to industrial cleaning agents and

Application of SS Trench Drain

Commercial units such as water sports parks, amusement parks, hostel kitchens, restaurants, and medical facilities such as hospitals and nursing homes

Types of Stainless Steel Trench Drains

There are two commonly used types of stainless steel namely 304 and 316 which cannot be distinguished by look but are slightly different in composition.

Type 304 contains 16-25% chromium and 36% nickel with trace amounts of carbon and manganese. This chromium content provides the resistance to oxidation and corrosion. Most of the stainless steel products are manufactured using this steel because it is highly malleable, versatile and very durable Class D load rating. They allow for heavier traffic like forklifts, making them a great option for

Type 316 is a marine grade stainless steel, similar in composition to 304 but with varying percentage of elements and an added 2 to 3% of molybdenum. This addition of molybdenum improves the resistance of steel to very corrosive environment that can lead to pitting and crevice corrosion. Highly corrosive environment such as those exposed to salt water in coastal areas, marine application and those

Stainless steel (SS) trench drains meet F.D.A. standards and have superior anti-corrosive, antibacterial and anti-contaminative properties compared to other materials.

Swift drain Brewmaster

The Swift drain Brewmaster 600

The Brewmaster is the go to trench drain system for breweries large and small. The system comes equipped with a 6" wide stainless steel ADA grate. The system can be rated for pedestrians and forklift traffic, class A, class C and class D. The Brewmaster is made of a high performance polyethylene which can handle caustic chemicals and extreme temperatures. The Brewmaster comes with a 1% built in pitch or pre slope. The system can achieve runs upwards of 180 feet. Made of environmentally friendly materials, 100% recyclable.

Features:

Stainless steel grates combined with industry leading polyethylene channels give Swift drain's Brewmaster the same high performance as a complete stainless steel trench drain systems at a fraction of the cost

1% pre-sloped channels maintain optimal flow rates

HDPE material offers high chemical resistance and durability

Locking grates for stability

Channels come numbered with arrows for easy installation

Channels have easily joinable slip joints

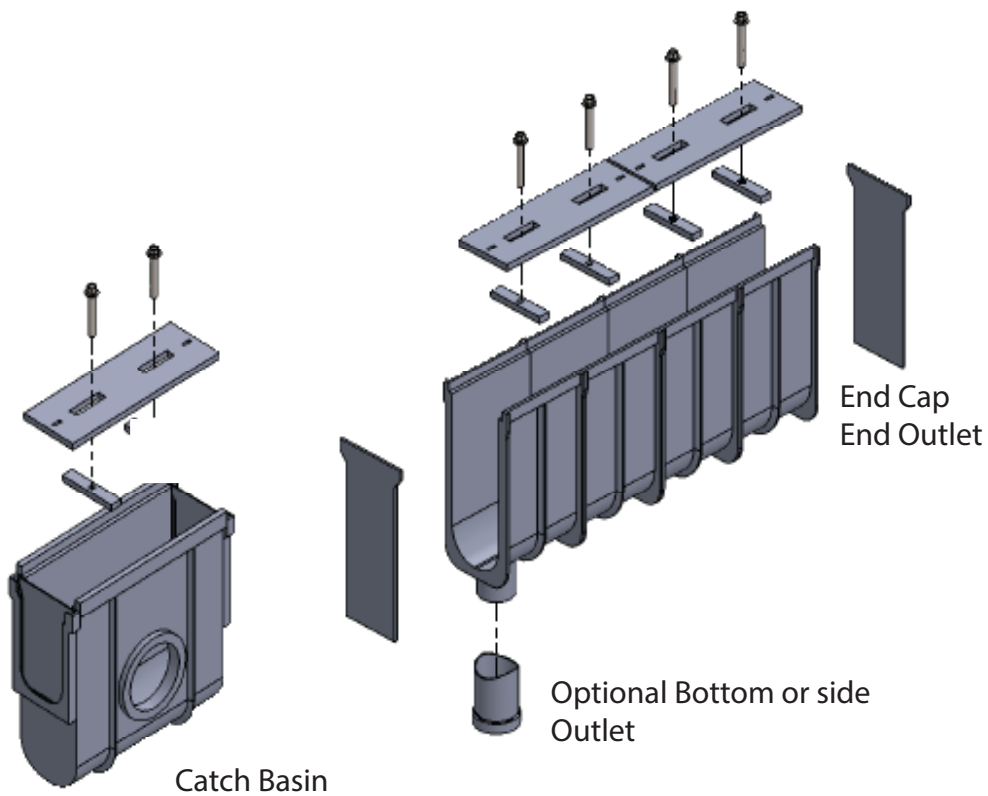
Prefabricated bottom outlet and side outlet connections

Multiple channel depths can be achieved

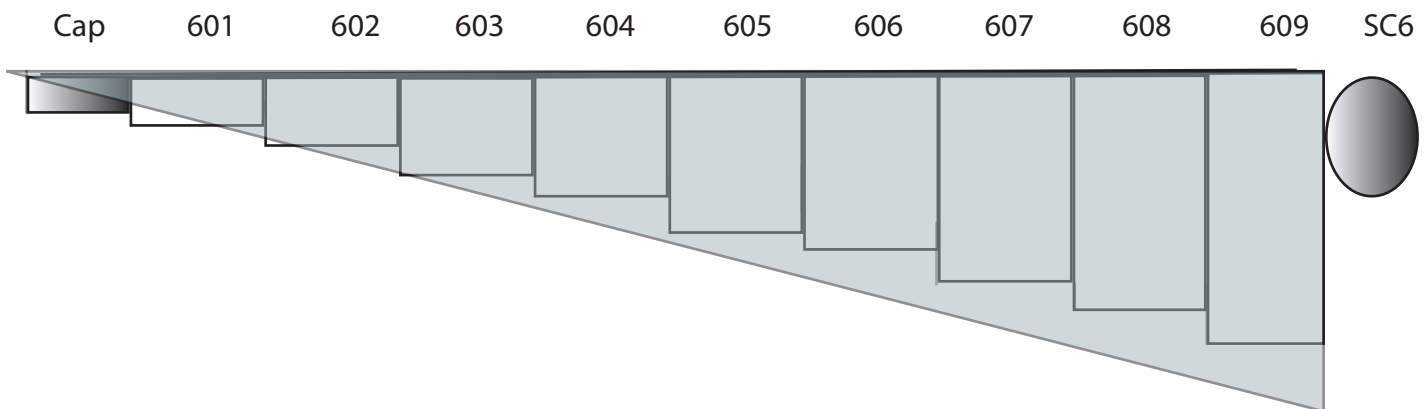
Stainless Steel Grates

Swift drain's Brewmaster comes with 6" wide, stainless steel ADA grates. These grates don't rust or corrode. They can handle the caustic chemicals of a brew house and maintain well under extremely high temperatures.





Continuous Sloped Channels. Slope .5% - 2%. Neutrals available in every section.



Part	601	602	603	604	605	605	607	608	609	N
Depth	4.5"	5.5"	6.5"	7.5"	8.5"	9.5"	10.5"	12.5"	13.5"	6"
Flow	84	92	109	118	129	137	146	168	189	

For more information visit us at www.swift drain.com
For questions or sales call us at 646-227-0910
For comments email us at info@swift drain.com

