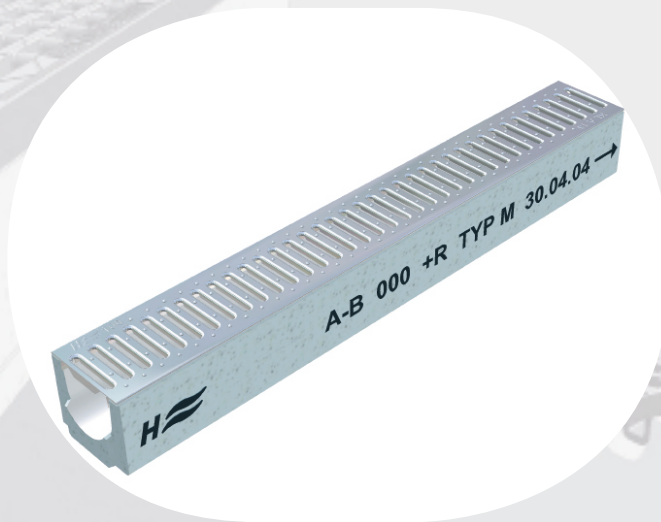




# Precast Concrete Trench Drain Systems



## MINI SYSTEM

4" Wide Throat

Supplied By:

**TRENCHDRAIN  
SUPPLY**

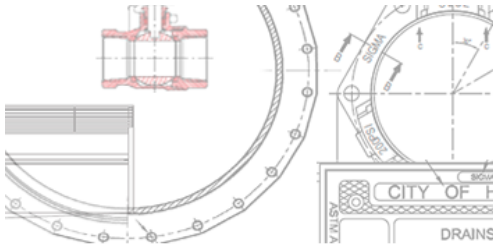
877-903-7246

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**HYDROTEC** <sup>®</sup>  
*Technologies*

## About SIGMA

### Quality - Service - Commitment - Delivered



SIGMA Corporation has been developing products for the North American Water and Wastewater industry for over 25 years.

Today, we are one of the world's largest suppliers of specialty water products within the American Waterworks Association (AWWA) range.

At SIGMA, we are proud to offer the highest quality ductile iron waterworks fittings, pipe restraint products, municipal casting products and trench drain systems available on the market. We operate a network of warehouse and distribution offices that provides us with a national reach.

### Our Partnership with HYDROTEC

SIGMA has grown rapidly through an increased focus on geographic expansion, and by broadening our extensive product line. We have recently complemented our portfolio by acquiring a number of new product lines to service the fire protection, plumbing, pump, valve and trench drain industries.

Our recent partnership with HYDROTEC, a leading manufacturer of Trench Drain Systems from Germany, broadens our business and plays to the strengths of the SIGMA team.

SIGMA is also an important OEM supplier to the water industry, working with our customers to develop value added and engineered solutions for the valve, hydrant, and pump sectors. We have leveraged OEM's synergies to expand our footprint outside water and castings in order to serve numerous customers across many different product categories. We deem all inquiries as worthy of review by our team and our vast and growing supply base.



### Our Mission and our Commitment to our Customers

Our mission is to exceed our customers' expectations by focusing on the principles of quality and customer service. Commitment to our customer is the foundation on which these principles are based. We aim to be your trusted business partner, giving you confidence in our well engineered products. We are industry leaders in the field of quality testing, and seek to raise the bar on quality standards and manufacturing processes in our industry. The company has pioneered a quality control procedure that is the highest in the industry, relying on process controls, testing, and a unique heat coded marquee, displaying manufacturing data that is encoded at the time of manufacture.

At SIGMA we believe that quality is not a cost; rather it is an investment on behalf of our customers – and their customers. Because of our quality approach to manufacturing and to customer service, it pays to do business with us.

HYDROTEC Trench Drain Product Line by Load Class



**CLASS A**  
15 kN / 3,372 lbs

Residential areas used by pedestrians and cyclists.



**CLASS B**  
125 kN / 28,100 lbs

Sidewalks, pedestrian areas and small parking lots.



**CLASS C**  
250 kN / 56,200 lbs

Parking lots and general commercial areas.



**CLASS D**  
400 kN / 89,920 lbs

Roads and highways.



**CLASS E**  
600 kN / 134,800 lbs

Industrial areas used by vehicles with a particularly heavy wheel load, e.g. gas stations and loading dock facilities.



**CLASS F**  
900 kN / 202,320 lbs

Special areas with heavy wheel loads, e.g. airports and docks.

**MINI**



**MINI100 (4") A**  
Galvanized Steel Slot ADA Grate

**MINI100 (4") B**  
Galvanized Steel Mesh Grate

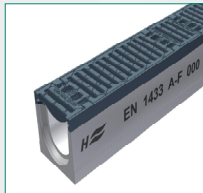
**TOP**



**TOP100 (4") LOAD CLASS A/C**

Galvanized Steel Slot ADA Grate (Load Classes A & C)  
Galvanized Steel Mesh Grate (Load Class C)  
Ductile Iron Grate (Load Class C)

**MAXI**



Ductile Iron ADA Grates

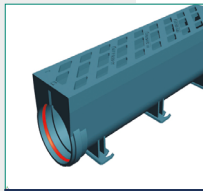
**MAXI100 (4") LOAD CLASS C/D/E/F**

**MAXI150 (6") LOAD CLASS D/E/F**

**MAXI200 (8") LOAD CLASS D/E/F**

**MAXI 300 (12") LOAD CLASS E/F**

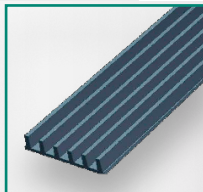
**HYDROblock**



One piece Ductile Iron

**HYDROblock 100 (4") / 200 (8") / 300 (12") LOAD CLASS F**

**HYDROline**



One piece Ductile Iron

**HYDROline LOAD CLASS F**

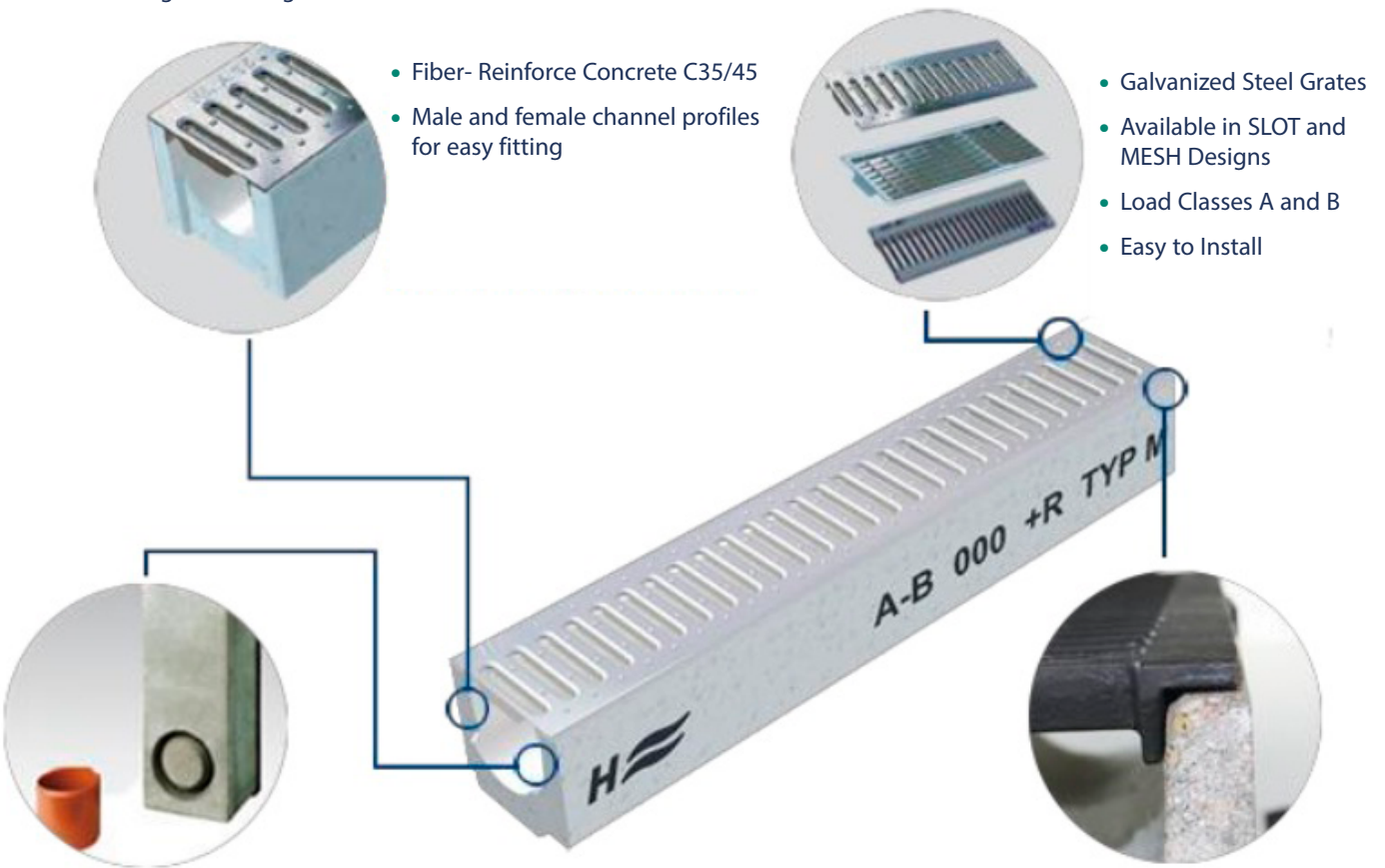
Supplied By:

## MINI SYSTEM

### Product Description

The MINI trench drain line is a simple modular system for uncomplicated D.I.Y. installation. These 4" wide flat trench drains are available in 39.37" (1 meter) and 19.69" (0.5 meters) long and they are easily joined together by connecting male and female profiles. Each channel section has a precast vertical outlet for 4" pipes. Available with galvanized steel slot ADA and galvanized steel mesh grates that provide a neat transition from the trench drain to the adjoining road surface.

Apart from use in private and leisure areas, the MINI trench drain is also suitable for sports fields, pedestrian areas, courtyards and car parks. The grates are held firmly in the channels, avoiding jamming between the adjoining surfaces. The use of natural building materials guarantees environmental friendliness.



- Practical system for easy D.I.Y. installation
- Precast vertical outlet to connect 4" pipes in each section
- Edge rail incorporated in the grate

### Areas of Application

- Sports Fields
- Shopping Malls
- Pedestrian Areas
- Domestic Driveways





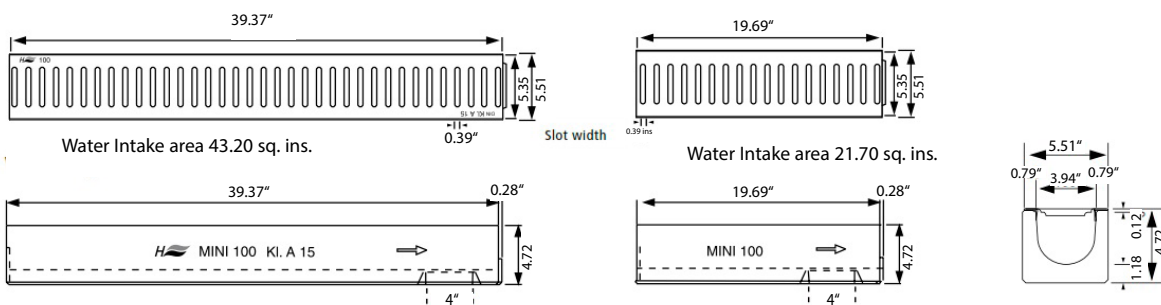
## MINI 100 SYSTEM (4")

### MINI Load Class A with Galvanized Steel Slot Grate



Product range

Part Description	Part No. CHG64110-	Weight lbs	Overall Length Inches (mm)	Overall Depth Inches (mm)		Pieces per pallet
				Inlet	Outlet	
Drainage channel without slope	-000	52.91	39.37" (1000)	4.72" (120)	4.72" (120)	48
	-005	34.17	19.69" (500)	4.72" (120)	4.72" (120)	96
Catch Basin	-008	63.93	19.69" (500)	14.29" (363)	14.29" (363)	10

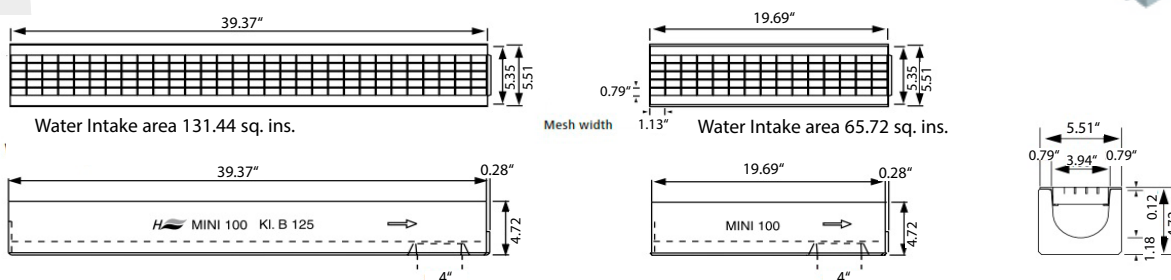


### MINI Load Class B with Galvanized Steel Mesh Grate

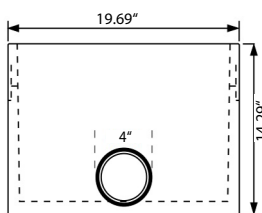


Product range

Part Description	Part No. CHG64120-	Weight lbs	Overall Length Inches (mm)	Overall Depth Inches (mm)		Pieces per pallet
				Inlet	Outlet	
Drainage channel without slope	-000	52.91	39.37" (1000)	4.72" (120)	4.72" (120)	48
	-005	34.17	19.69" (500)	4.72" (120)	4.72" (120)	96
Catch Basin	-008	63.93	19.69" (500)	14.29" (363)	14.29" (363)	10



### Accessories MINI Load Class A & B



Catch Basin includes  
galvanized dirt catcher  
CHG64110-008 (Class A)  
CHG64120-008 (Class B)



End Piece  
Galvanized Steel  
Part.No.: CHG70016-00

Installation examples on page 27



4" Pipe Connector  
Part.No.: CHG70021-00



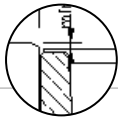
Foul air stop 4"  
Part.No.: CHG70031-00

INSTALLATION INSTRUCTIONS MINI

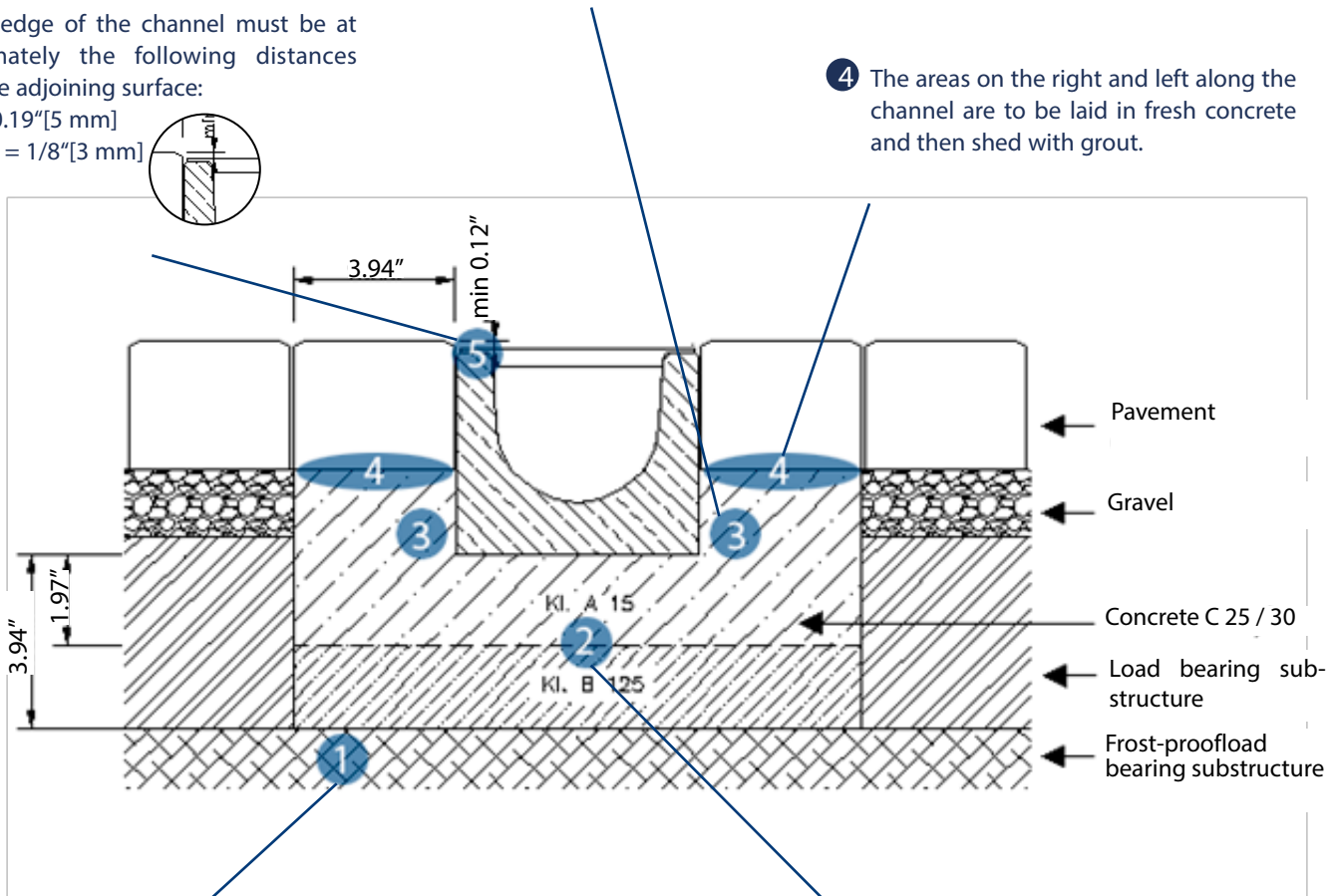


3 When the channel is installed on a concrete bed, it is protected against the horizontal forces. This requires a concrete shell of 3.93"[10 cm] width and 2.36"[6 cm] height.

5 The top edge of the channel must be at approximately the following distances below the adjoining surface:  
Asphalt 0.19"[5 mm]  
Concrete = 1/8"[3 mm]



4 The areas on the right and left along the channel are to be laid in fresh concrete and then shed with grout.



1 Before beginning work, ensure the load bearing base is frost free. The base must therefore be properly compacted according to the load class to avoid the channel to drop upon installation. Usually this is determined by the structural engineer responsible for the project or planner.

2 When installing the MINI system, a C25/30 concrete bed must be built according to the load class (A or B): for Load Class A, the concrete bed must be of at least 1.92"[5cm]; for Load Class B the concrete bed must be of at least 3.93"[10cm].

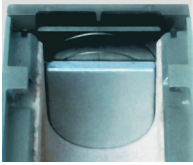
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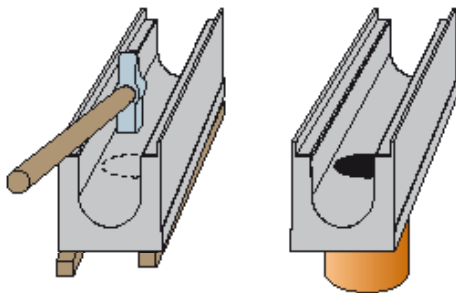
## Closed End Cap for MINI100



1. Remove the grate
2. Take Part No. CHG70016-00, place the galvanized steel piece inside the channel so the round male side fits inside the channel.
3. Place back the grate on top of the channel and push down to lock it.

## Connecting a 4" Pipe to the MINI Trench Drain System

All MINI trench drains have a precast knock out for a pipe connection in the base of every channel. The precast can be knocked out carefully using a hammer, after placing the channel on wooden supports leaving a space underneath. Matching PVC pipe connections are available and allow for an easy connection of the channel to the 4" pipe.



- 1 ) Knock out gently
- 2 ) Insert the PVC pipe connection so it does not go all the way through the channel

4" Pipes can be connected to the MINI Catch Basin through a precast knockout on the side of the Catch Basin.

