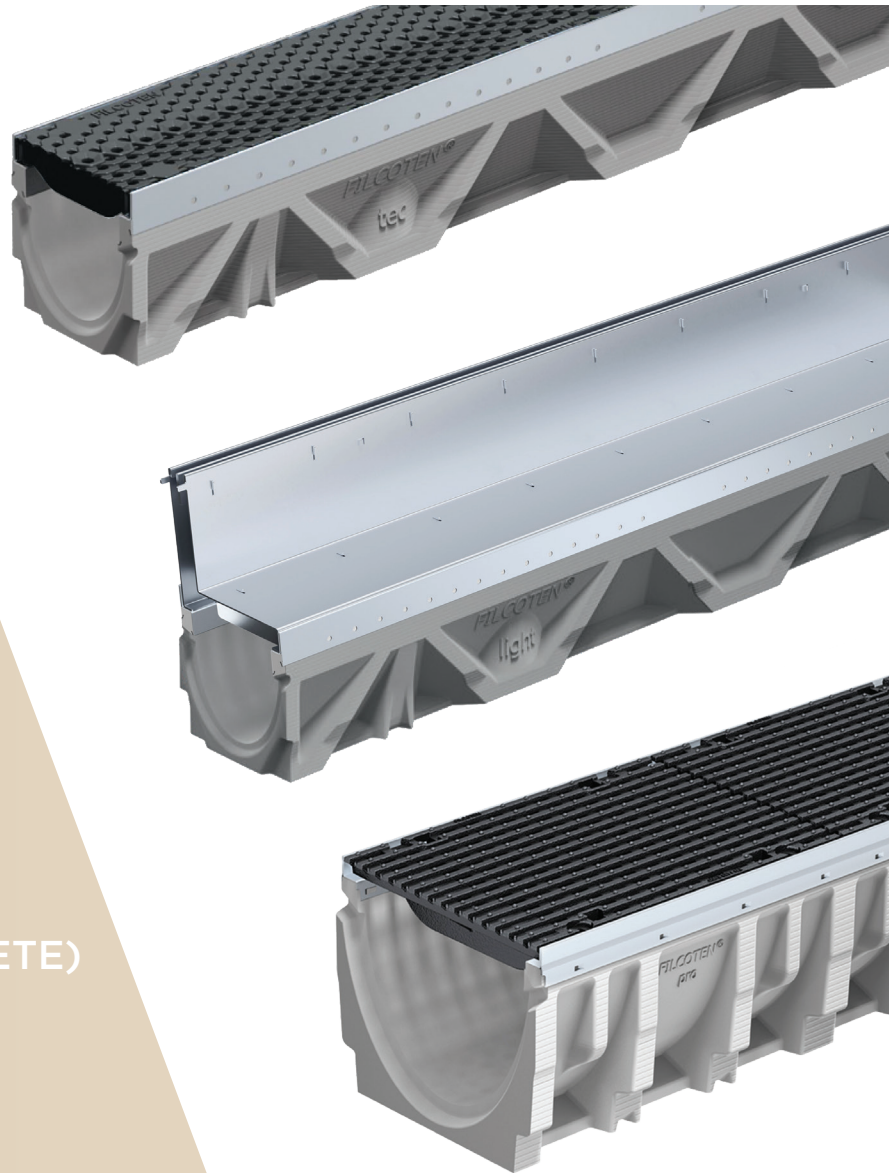


BG-FILCOTEN-2020

# 2020

## BG-FILCOTEN TRENCH DRAINS CATALOG

FILCOTEN HPC  
(HIGH PERFORMANCE CONCRETE)  
TRENCH DRAINS



4", 8", 12" INTERNAL WIDTHS - SHALLOW BODY - CATCH BASINS  
(6", 10" and 14" OVERALL WIDTHS)

LIT-076

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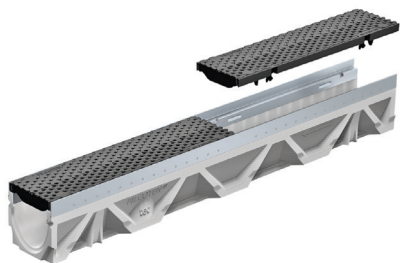
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*"MIFAB's FILCOTEN fibre-reinforced concrete trench drains allow for chemical-free installation, using no plastic resins, hardening agents, or solvents, making them safer to use and environmentally-friendly. In addition, the chemical-free concrete FILCOTEN product leads to better adhesion to the concrete material that it is often installed in. Because durability matters, I always specify MIFAB's FILCOTEN trench drains."*

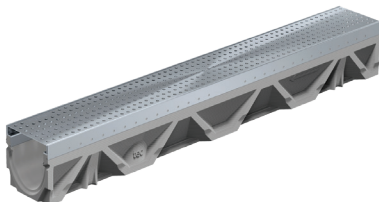
— Amanda Dolber, PE, EBS Engineering, PC, Buffalo, NY

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## PICTORIAL INDEX



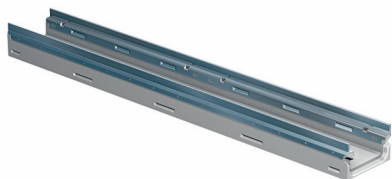
**T1500 - Galvanized steel edge rail**  
(T1500 - Pages 8 - 12)



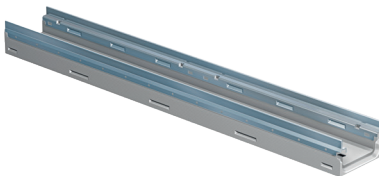
**T1500-3 - Stainless steel edge rail**  
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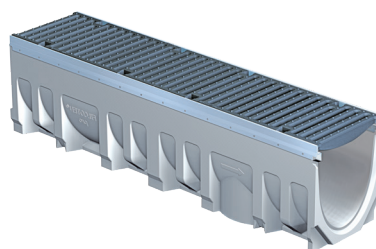
**T1500 Catch basin - Galvanized steel edge rail**  
(T1500-CB620 - Page 8)



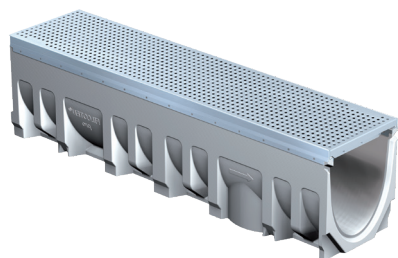
**T1560 - Galvanized steel edge rail**  
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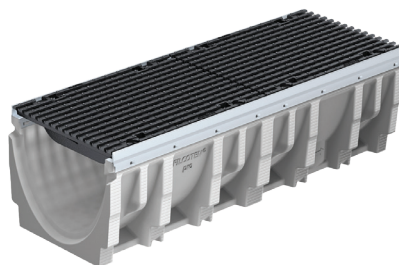
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**T1700 Catch basin - Galvanized steel edge rail**  
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**T1800 Catch basin - Galvanized steel edge rail**  
(T1800-CB620 - Page 17)

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Design and dimensions are subject to modification. Prices do not include applicable taxes.

Visit [www.mifab.com](http://www.mifab.com) for the most recent product information.

MIFAB®, Inc., 1321 West 119th Street, Chicago, Illinois 60643-5109, USA

All sales subject to MIFAB's® Terms and Warranties. Please refer to page 28.

Toll Free: 1-800-465-2736, Fax: 1-773-341-3049  
sales@mifab.com Canada Toll Free: 1-800-387-3880



# Innovation without sustainability is not innovation.



## Global Champion with family tradition

In 1961, Friedrich Graspöckner founded the concrete factory Graspöckner as a family business in Oberwang, Austria. Since then, a lot has changed: the small-scale manufacturer of concrete goods for the local market has grown into a successful, globally active company with 250 employees. The company's high performance concrete trench drain products are marketed under the BG-FILCOTEN brand name. MIFAB has been appointed the exclusive distributor of the BG-FILCOTEN trench drain products for the USA and Canadian plumbing markets.

Our products are in direct contact with the earth's water cycle.

We have been asking ourselves the question of how advancement and sustainability can be combined for many years. We therefore set one additional goal when developing FILCOTEN®:

**"It should be really environmentally friendly."**

## Our success and quality gets around

all over the world. Our drainage systems ensure dry, safe streets and hardscape areas.

We are very proud of the fact that we were able to achieve this. FILCOTEN HPC is completely neutral for the environment from the manufacturing process through to full recycling; and does not have any negative effects on humans or nature.

Our energy mix also makes clear that we are serious when it comes to sustainability. Most of our energy consumption is from renewable energy.

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.





## BG green electricity:

51.33% Hydroelectric power

44.12% Biomass (solid and liquid)

2.11% Biogas

1.27% Wind power

1.14% Solar energy

0.03% Other green energy

**100% Sustainable energy mix.**

- Economical handling of mineral raw materials



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## Features and Benefits

### FILCOTEN HPC

Impact strength and environmental friendliness are just two of the many features which make FILCOTEN HPC unique. FILCOTEN HPC complies with the EN 1433 Standard and the ASTM A112.6.3.2001 Floor and Trench Drain Standard.



#### Temperature, Frost and UV-resistant

FILCOTEN HPC channels are made from cement-bonded fiber composites, which react to changes in temperature in the same way as the surrounding concrete bedding. This achieves a continuous integral unit reacting and flexing with the environment delivering a long service life for the entire channel system. Resistant to frost down to -40°F (-40°C). Also resistant to de-icing salts.



#### Product impact stability

Impact strength and environmental friendliness are just two of the many features which makes FILCOTEN HPC unique. The bodies are made from a patented fiber enriched formula instead of the environmentally harmful resins that is typical with others. FILCOTEN HPC is still unrivaled in the market place, being admired for its sustainability and its unique channel strength. FILCOTEN HPC complies with the EN 1433 Standard and the ASTM A112.6.3.2001 Floor and Trench Drain Standard.



#### 100 % recyclable

Every ounce of a FILCOTEN HPC channel is completely recyclable. FILCOTEN HPC has been tested by the soil and building materials testing facility in Linz, Austria.



#### Non-flammable

Plastic and polymer concrete products are both flammable and often emit hazardous fumes when ignited. The complete absence of resins, catalysts and bonding agents make FILCOTEN HPC completely non-flammable. FILCOTEN HPC has a Fire Rating of A1.

#### Fire protection classes:

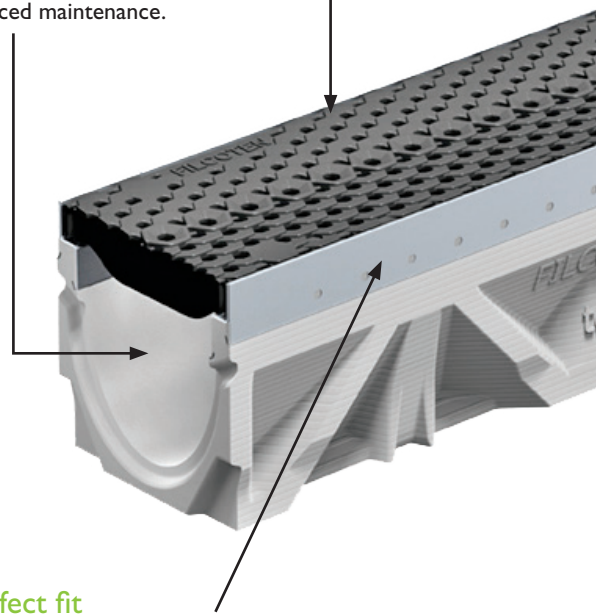
- ▶ Polymer concrete: B1 difficult to ignite
- ▶ Plastic: B2 normal combustibility
- ▶ Glass fiber reinforced plastic: B2 normal combustibility
- ▶ FILCOTEN HPC: A1 non-combustible

#### Galvanized steel rails

The special design of the galvanized steel rails allow for secure grate locking with the fix self-locking system. Adjacent covering surfaces can easily be attached to the edges of the rails.

#### Channel geometry / surfacing

The internal surface of FILCOTEN HPC channels are smooth which minimizes surface friction. This achieves the best possible flow and reduced maintenance.



#### Perfect fit

The galvanized or stainless steel rail is integrally molded into the body.

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## World class design and craftsmanship

The textured outer surface ensures a perfect bond with the concrete encasement.

### Surface properties:

36µm (micrometers)

Glass fiber modified concrete

Concrete

FILCOTEN HPC

The 36 micrometers (µm) shown on the surface properties is the surface roughness value of polymer concrete.

## High compressive strength

A high quality cement mixed with fibers enables thin-walled channel design while yielding a very high compression strength.

### Compressive strength

Polymer concrete

Glass fiber modified concrete

Concrete

FILCOTEN HPC



### Galvanized steel rails COMBee Honeycomb grating (Class C)

Unique honeycomb and scaled surface structure design with central marking line, makes this grating ideal for modern applications. Hydraulically optimized inlet sections and heel proof for pedestrian areas. Also available are Class E ductile iron grates, stainless steel and galvanized grates. The FILCOTEN HPC composite grating is 100 % corrosion resistant, can be fully recycled and is UV, frost and heat resistant.

### TI500 body

TI500 body with galvanized steel rails and COMBee composite grates illustrated.

### Easy installation

Anchoring ribs ensure a secure bond and anchoring of the channel with the surrounding concrete encasement.

## 0% Harmful substances, heavy metals or VOC's

FILCOTEN HPC is free from artificial resins and solvents. This means that it is harmless to the environment, our employees and the installation team. FILCOTEN HPC channel bodies have been bioconstructively tested and are recommended by the IBR (Institut für Baubiologie Rosenheim GmbH).



## IBR Certificate

*The Institut für Baubiologie Rosenheim GmbH (IBR, Institute for Biologically Sound Construction), in Rosenheim, Germany tests products for their impact on human health and has been awarding its own Seal of Approval for more than 38 years on healthy and environmentally sustainable consumer construction products. Products are tested for being free from any VOCs, biocides, heavy metals and radioactivity.*

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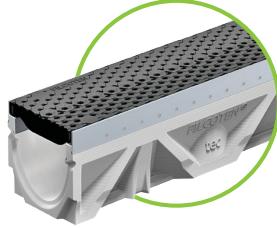
MIFAB®, Inc., 1321 West 119th Street, Chicago, Illinois 60643-5109, USA

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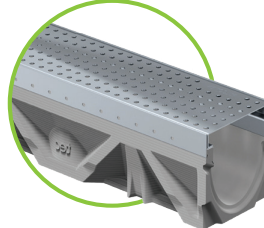
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**FILCOTEN HPC**  
**T1500**  
including integral  
**Galvanized Steel** rails  
(T1500-PG-PGC grate  
illustrated)

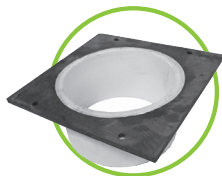
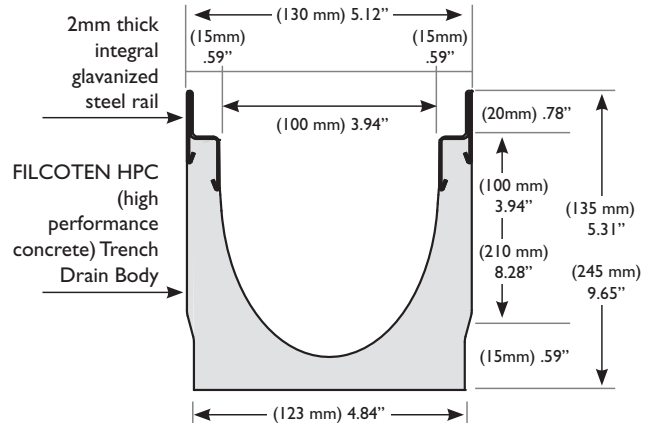


**FILCOTEN HPC**  
**T1500-3**  
including integral  
**Stainless Steel** rails  
(T1500-PG-FSPC grate  
illustrated)

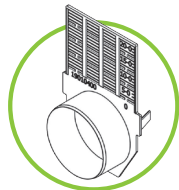


*"I would like to say a few words about MIFAB trench drains. MIFAB's trench drain systems are competitively priced and of quality workmanship. MIFAB has one of the broadest trench and grate offerings of any manufacturer in the plumbing business. I like specifying MIFAB trench because of the consistent quality. I like to specify MIFAB's Filcoten T1500 because it is 20-times stronger than the polymer concrete competitors and adheres to concrete more effectively."*

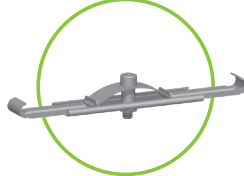
— Christopher Ramos, Plumbing Designer, Kraemer Consulting Engineers, Phoenix, AZ



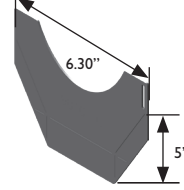
**T1500-PBO2, 3, or 4**  
No Hub Bottom  
Outlet (2", 3" or 4")



**T1500-PEO4 - 4"**  
Plastic end inlet / outlet and  
combination front / end cap

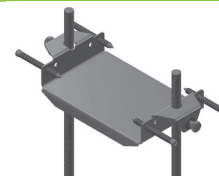


Anti-vandalism locking device  
for all grates (except  
perforated), ADA compliant.  
2 pieces needed per meter.



**T1500-ST - Step**  
connector for  
connecting bodies  
with different heights.

### T1500-REB (Installation Device)

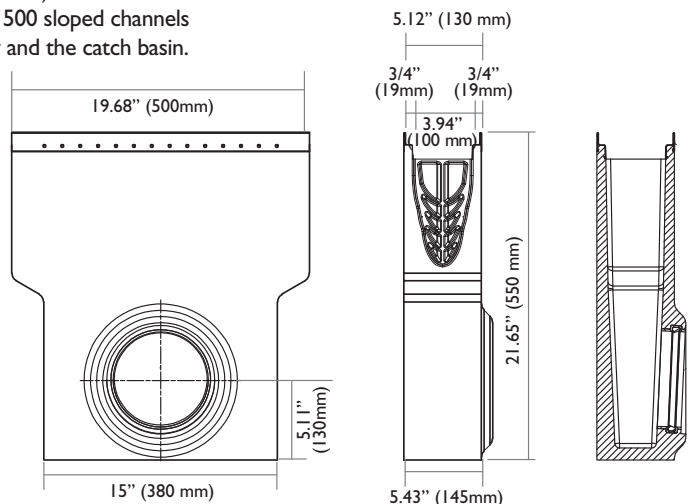


Optional Installation Device  
(T1500-REB)

**FILCOTEN HPC T1500 catch basin (part #: T1500-CB620)** Use with all T1500 neutral channels - fits nicely. When connected with T1500 sloped channels one has to grind and adjust the connection between the body and the catch basin.



The female connection is designed with an inside gasket to receive either 6" cast iron or PVC pipe. Insert the pipe into the female connection and ensure that it passes the inside gasket.



5.31"	T1500N	T1501	T1502	T1503	T1504	T1505	T1505N	T1506	T1507	T1508	T1509	T1510	T1510N	7.28"
	NEUTRAL						NEUTRAL						NEUTRAL	


See bottom of page 9 for T1511 to T1520N sections

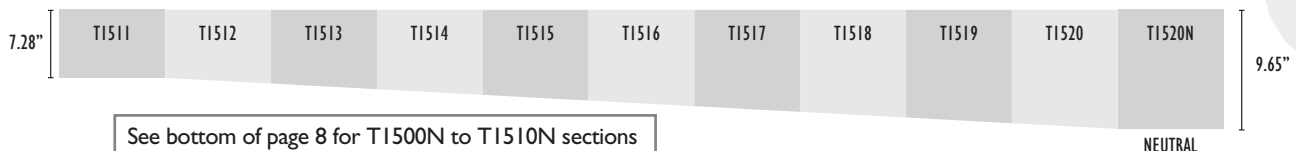
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Body Part Number		Body Part Number		Body type	Slope	Invert Body Depth		Overall Body Depth		Maximum Flow Rate See note below			Weight (Less Grate)	
Galvanized Steel Integral Rails	List Price, Each, Add (1 Meter long)	Stainless Steel Integral Rails	List Price, Each, Add (1 Meter long)			E1 (Min.)	E2 (Max.)	E1 (Min.)	E2 (Max.)	GPM*	LPS*	CFS*	Lbs.	kg.
<b>T1500N</b>	<b>\$150.00</b>	<b>T1500N-3</b>	<b>\$310.00</b>	Neutral	0%	4.72"	4.72"	5.31"	5.31"	47.60	3	0.11	28.66	13.00
<b>T1501</b>	<b>\$150.00</b>	<b>T1501-3</b>	<b>\$310.00</b>	Sloped	.5%	4.72"	4.92"	5.31"	5.51"	47.60	3	0.11	29.54	13.40
<b>T1502</b>	<b>\$150.00</b>	<b>T1502-3</b>	<b>\$310.00</b>	Sloped	.5%	4.92"	5.12"	5.51"	5.71"	47.60	3	0.11	31.08	14.10
<b>T1503</b>	<b>\$150.00</b>	<b>T1503-3</b>	<b>\$310.00</b>	Sloped	.5%	5.12"	5.31"	5.71"	5.91"	47.60	3	0.11	32.63	14.80
<b>T1504</b>	<b>\$150.00</b>	<b>T1504-3</b>	<b>\$310.00</b>	Sloped	.5%	5.31"	5.51"	5.91"	6.10"	47.60	3	0.11	32.95	15.40
<b>T1505</b>	<b>\$150.00</b>	<b>T1505-3</b>	<b>\$310.00</b>	Sloped	.5%	5.51"	5.71"	6.10"	6.30"	47.60	3	0.11	35.05	15.90
<b>T1505N</b>	<b>\$150.00</b>	<b>T1505N-3</b>	<b>\$310.00</b>	Neutral	0%	5.71"	5.71"	6.30"	6.30"	47.60	3	0.11	35.49	16.10
<b>T1506</b>	<b>\$150.00</b>	<b>T1506-3</b>	<b>\$310.00</b>	Sloped	.5%	5.71"	5.91"	6.30"	6.50"	47.60	3	0.11	36.16	16.40
<b>T1507</b>	<b>\$150.00</b>	<b>T1507-3</b>	<b>\$310.00</b>	Sloped	.5%	5.91"	6.10"	6.50"	6.69"	47.60	3	0.11	37.04	16.80
<b>T1508</b>	<b>\$150.00</b>	<b>T1508-3</b>	<b>\$310.00</b>	Sloped	.5%	6.10"	6.30"	6.69"	6.89"	47.60	3	0.11	38.36	17.40
<b>T1509</b>	<b>\$150.00</b>	<b>T1509-3</b>	<b>\$310.00</b>	Sloped	.5%	6.30"	6.50"	6.89"	7.09"	47.60	3	0.11	39.68	18.00
<b>T1510</b>	<b>\$150.00</b>	<b>T1510-3</b>	<b>\$310.00</b>	Sloped	.5%	6.50"	6.69"	7.09"	7.28"	47.60	3	0.11	40.79	18.50
<b>T1510N</b>	<b>\$150.00</b>	<b>T1510N-3</b>	<b>\$310.00</b>	Neutral	0%	6.69"	6.69"	7.28"	7.28"	95.10	6	0.21	41.23	18.70
<b>T1511</b>	<b>\$150.00</b>	<b>T1511-3</b>	<b>\$310.00</b>	Sloped	.5%	6.69"	6.89"	7.68"	7.87"	95.10	6	0.21	45.30	20.60
<b>T1512</b>	<b>\$150.00</b>	<b>T1512-3</b>	<b>\$310.00</b>	Sloped	.5%	6.89"	7.09"	7.87"	8.07"	95.10	6	0.21	46.08	20.90
<b>T1513</b>	<b>\$150.00</b>	<b>T1513-3</b>	<b>\$310.00</b>	Sloped	.5%	7.09"	7.28"	8.07"	8.27"	95.10	6	0.21	46.96	21.30
<b>T1514</b>	<b>\$150.00</b>	<b>T1514-3</b>	<b>\$310.00</b>	Sloped	.5%	7.28"	7.48"	8.27"	8.46"	95.10	6	0.21	50.49	22.90
<b>T1515</b>	<b>\$150.00</b>	<b>T1515-3</b>	<b>\$310.00</b>	Sloped	.5%	7.48"	7.68"	8.46"	8.66"	95.10	6	0.21	50.93	23.10
<b>T1516</b>	<b>\$150.00</b>	<b>T1516-3</b>	<b>\$310.00</b>	Sloped	.5%	7.68"	7.87"	8.66"	8.86"	95.10	6	0.21	52.47	23.80
<b>T1517</b>	<b>\$150.00</b>	<b>T1517-3</b>	<b>\$310.00</b>	Sloped	.5%	7.87"	8.07"	8.86"	9.05"	95.10	6	0.21	53.13	24.10
<b>T1518</b>	<b>\$150.00</b>	<b>T1518-3</b>	<b>\$310.00</b>	Sloped	.5%	8.07"	8.27"	9.05"	9.25"	95.10	6	0.21	59.30	26.90
<b>T1519</b>	<b>\$150.00</b>	<b>T1519-3</b>	<b>\$310.00</b>	Sloped	.5%	8.27"	8.46"	9.25"	9.45"	95.10	6	0.21	61.73	28.00
<b>T1520</b>	<b>\$150.00</b>	<b>T1520-3</b>	<b>\$310.00</b>	Sloped	.5%	8.46"	8.66"	9.45"	9.65"	95.10	6	0.21	61.07	27.70
<b>T1520N</b>	<b>\$150.00</b>	<b>T1520N-3</b>	<b>\$310.00</b>	Neutral	0%	8.66"	8.66"	9.65"	9.65"	152.20	9.6	0.34	69.90	31.70

**Note: The maximum flow rate represents the maximum flow in the trench itself.  
The number and size of the outlets will determine the maximum flow rate of the trench system.**

Model Number	Description	Material	Weight LBS kg.		List Price, Each, Add
<b>T1500-CB620</b>	Inline catch basin for T1500 bodies with galvanized steel rails and 6" outlet seal to receive 6" PVC or cast iron pipe, complete with plastic sediment bucket.	FILCOTEN HPC	71.42	32.4	<b>\$415.00</b>
<b>T1500-3-CB620</b>	Inline catch basin for T1500 bodies with stainless steel rails and 6" outlet seal to receive 6" PVC or cast iron pipe, complete with plastic sediment bucket.	FILCOTEN HPC	71.42	32.4	<b>\$739.00</b>
<b>T1500-CB620-SB</b>	Plastic sediment bucket for catch basin (included with every catch basin)	plastic	0.44	0.2	<b>\$64.00</b>
<b>T1500-PBO2</b>	2" No Hub Bottom Outlet	plastic	0.44	0.2	<b>\$49.00</b>
<b>T1500-PBO3</b>	3" No Hub Bottom Outlet	plastic	0.44	0.2	<b>\$49.00</b>
<b>T1500-PBO4</b>	4" No Hub Bottom Outlet	plastic	0.44	0.2	<b>\$49.00</b>
<b>T1500-PEO4</b>	4" No Hub End inlet / outlet and combination front / end cap	plastic	0.44	0.2	<b>\$49.00</b>
<b>T1500-PGLVP</b>	Vandal proof grate lockdown* (Not for perforated grates) (1 piece)	stainless steel	0.22	0.1	<b>\$41.00</b>
<b>T1500-REB</b>	Installation Device	galvanized steel	0.22	0.1	<b>\$35.00</b>
<b>T1500-PBDS</b>	Bottom Dome Strainer	plastic	0.20	0.1	<b>\$49.00</b>
<b>T1500-ST</b>	Step Connector (to connect the T1500 neutral bodies)	galvanized steel	0.22	0.1	<b>\$42.00</b>
<b>T1500-CUT</b>	Cutting / per cut - (includes body and grate)	-	-	-	<b>\$400.00</b>
<b>Tees</b>	Fabricated tee (available in T1500N-TEE, T1505N-TEE, T1510N-TEE models) (includes grate)	-	-	-	<b>\$500.00</b> <b>(\$688.00 for the -3 (S.S.) bodies)</b>
<b>45°</b>	45° body section (includes grate)	<b>*GPM = Gallons per Minute</b> <b>*LPS = Litres per Second</b> <b>*CFS=Cubic Feet per Second</b>	 <b>Accessory details including additional images on page 22</b>		<b>\$500.00</b> <b>(\$688.00 for the -3 (S.S.) bodies)</b>
<b>90°</b>	90° body section (includes grate)				<b>\$500.00</b> <b>(\$688.00 for the -3 (S.S.) bodies)</b>



See bottom of page 8 for T1500N to T1510N sections

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



### Gratings FILCOTEN HPC T1500 with fiX self-locking system

Model Number	Grate Type	Material	Dimensions	Load Class per EN 1433 / ANSI A112.21.1M	Slot / Mesh Width	Weight/pc.		Inlet cross- section (Free Area)	List Price, Each, Add	List Price, Per Foot, Add
						Lbs.	Kg.			
<b>T1500-PG-FSA</b>	Slotted	galvanized steel	39.40"/4.80"/.78"	A - Light Duty	0.31" wide x 3.15" slots (8x80mm)	8.0	3.64	42.63 sq. inches	<b>\$37.50</b>	<b>\$11.43</b>
<b>T1500-PG-FSA-500</b>	Slotted	galvanized steel	19.70"/4.80"/.78"	A - Light Duty	0.31" wide x 3.15" slots (8x80mm)	4.0	1.82	21.31 sq. inches	<b>\$30.00</b>	<b>\$18.29</b>
<b>T1500-PG-FSSA</b>	Slotted	stainless steel	39.40"/4.80"/.78"	A - Light Duty	0.31" wide x 3.15" slots (8x80mm)	8.0	3.64	42.63 sq. inches	<b>\$225.00</b>	<b>\$68.60</b>
<b>T1500-PG-FSSA-500</b>	Slotted	stainless steel	19.70"/4.80"/.78"	A - Light Duty	0.31" wide x 3.15" slots (8x80mm)	4.0	1.82	21.31 sq. inches	<b>\$180.00</b>	<b>\$109.76</b>
<b>T1500-PG-WW</b>	  Wedgewire (non slip)	stainless steel	39.40"/4.80"/.78"	B - Medium Duty	0.24" wide x 1.61" slots (6 x 41 mm)	8.0	3.64	93.80 sq. inches	<b>\$815.00</b>	<b>\$248.48</b>
<b>T1500-PG-WW-500</b>	  Wedgewire (non slip)	stainless steel	19.70"/4.80"/.78"	B - Medium Duty	0.24" wide x 1.61" slots (6x41 mm)	4.0	1.82	46.1 sq. inches	<b>\$425.00</b>	<b>\$259.15</b>
<b>T1500-PG-FSC</b>	Slotted	galvanized steel	39.40"/4.80"/.78"	C - Heavy Duty	0.31" wide x 3.15" slots (8x80 mm)	9.92	4.5	42.63 sq. inches	<b>\$193.75</b>	<b>\$59.07</b>
<b>T1500-PG-FSC-500</b>	Slotted	galvanized steel	19.70"/4.80"/.78"	C - Heavy Duty	0.31" wide x 3.15" slots (8x80 mm)	4.85	2.2	21.31 sq. inches	<b>\$157.50</b>	<b>\$96.04</b>
<b>T1500-PG-FSSC</b>	Slotted	stainless steel	39.40"/4.80"/.78"	C - Heavy Duty	0.31" wide x 3.15" slots (8x80 mm)	9.92	4.5	42.63 sq. inches	<b>\$517.50</b>	<b>\$157.77</b>
<b>T1500-PG-FSSC-500</b>	Slotted	stainless steel	19.70"/4.80"/.78"	C - Heavy Duty	0.31" wide x 3.15" slots (8x80 mm)	4.85	2.2	21.31 sq. inches	<b>\$412.50</b>	<b>\$251.52</b>
<b>T1500-PG-FPC</b>	  Perforated (Heel Safe)	galvanized steel	39.40"/4.80"/.78"	C - Heavy Duty	Ø 1/4" hole (6.0 mm)	7.27	3.3	20.77 sq. inches	<b>\$225.00</b>	<b>\$68.60</b>
<b>T1500-PG-FPC-500</b>	  Perforated (Heel Safe)	galvanized steel	19.70"/4.80"/.78"	C - Heavy Duty	Ø 1/4" hole (6.0 mm)	3.74	1.7	10.39 sq. inches	<b>\$180.00</b>	<b>\$109.76</b>
<b>T1500-PG-FSPC</b>	  Perforated (Heel Safe)	stainless steel	39.40"/4.80"/.78"	C - Heavy Duty	Ø 1/4" hole (6.0 mm)	7.27	3.3	20.77 sq. inches	<b>\$701.25</b>	<b>\$213.80</b>
<b>T1500-PG-FSPC-500</b>	  Perforated (Heel Safe)	stainless steel	19.70"/4.80"/.78"	C - Heavy Duty	Ø 1/4" hole (6.0 mm)	3.74	1.7	10.39 sq. inches	<b>\$431.25</b>	<b>\$262.96</b>
<b>T1500-PG-PGC</b>	  Honeycomb (Heel Safe)	plastic	19.40"/4.84"/.78"	C - Heavy Duty	Ø 0.28" hole (7.2 mm)	2.42	1.1	22.47 sq. inches	<b>\$109.00</b>	<b>\$66.46</b>
<b>T1500-PG-FMC</b>	 Mesh	galvanized steel	39.40"/4.80"/.78"	C - Heavy Duty	MW 1.18" x 0.39" (MW 30 mm x 10 mm)	7.28	3.3	141.05 sq. inches	<b>\$202.50</b>	<b>\$61.74</b>
<b>T1500-PG-FMC-500</b>	 Mesh	galvanized steel	19.70"/4.80"/.78"	C - Heavy Duty	MW 1.18" x 0.39" (MW 30 mm x 10 mm)	3.53	1.6	68.59 sq. inches	<b>\$161.25</b>	<b>\$98.32</b>
<b>T1500-PG-FMSC</b>	 Mesh	stainless steel	39.40"/4.80"/.78"	C - Heavy Duty	MW 1.18" x 0.39" (MW 30 mm x 10 mm)	7.28	3.3	141.05 sq. inches	<b>\$660.00</b>	<b>\$201.22</b>
<b>T1500-PG-FMSC-500</b>	 Mesh	stainless steel	19.70"/4.80"/.78"	C - Heavy Duty	MW 1.18" x 0.39" (MW 30 mm x 10 mm)	3.53	1.6	68.59 sq. inches	<b>\$528.75</b>	<b>\$322.41</b>

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## Gratings FILCOTEN HPC T1500 with fiX self-locking system

Model Number	Grate Type	Material	Dimensions	Load Class per EN 1433 / ANSI A112.21.1M	Slot / Mesh Width	Weight/pc.		Inlet cross- section (Free Area)	List Price, Each, Add	List Price, Per Foot, Add
						Lbs.	Kg.			
<b>T1500-PG-SL</b>	  <b>Paverslot (Heel Safe)</b>	galvanized steel	39.40"/4.84"/5.24"	C - Heavy Duty	SW 2x0.24" (2 x 65 mm)	12.78	5.8	18.6 sq. inches	<b>\$360.00</b>	<b>\$109.76</b>
<b>T1500-PG-SL-500</b>	  <b>Paverslot (Heel Safe)</b>	galvanized steel	19.70"/4.84"/5.24"	C - Heavy Duty	SW 2x0.24" (2 x 65 mm)	6.61	3.0	9.3 sq. inches	<b>\$218.00</b>	<b>\$132.93</b>
<b>T1500-SL-M</b>	  <b>Maintenance Unit for Paverslot (Heel Safe)</b>	galvanized steel	19.70"/4.84"/5.24"	C - Heavy Duty	SW 2x0.24" (2 x 65 mm)	11.68	5.3	9.3 sq. inches	<b>\$544.00</b>	<b>\$165.85</b>
<b>T1500-PG-SSL</b>	  <b>Paverslot (Heel Safe)</b>	stainless steel	39.40"/4.84"/5.24"	C - Heavy Duty	SW 2x0.24" (2 x 65 mm)	12.78	5.8	18.6 sq. inches	<b>\$593.00</b>	<b>\$180.79</b>
<b>T1500-PG-SSL-500</b>	  <b>Paverslot (Heel Safe)</b>	stainless steel	19.70"/4.84"/5.24"	C - Heavy Duty	SW 2x0.24" (2 x 65 mm)	6.61	3.0	9.3 sq. inches	<b>\$357.00</b>	<b>\$217.68</b>
<b>T1500-SSL-M</b>	  <b>Maintenance Unit for Paverslot (Heel Safe)</b>	stainless steel	19.70"/4.84"/5.24"	C - Heavy Duty	SW 2x0.24" (2 x 65 mm)	11.68	5.3	9.3 sq. inches	<b>\$882.00</b>	<b>\$268.90</b>
<b>T1500-PG-4-ADA</b>	  <b>Longitudinal bar (Heel Safe)</b>	ductile iron	19.70"/4.80"/1.78"	C - Heavy Duty	1.14" x .24" (29 mm x 6.0 mm)	7.93	3.6	24.80 sq. inches	<b>\$86.25</b>	<b>\$52.59</b>
<b>T1500-PG-4-13-ADA</b>	  <b>Longitudinal bar (Heel Safe)</b>	galvanized ductile iron	19.70"/4.80"/1.78"	C - Heavy Duty	1.14" x .24" (29 mm x 6.0 mm)	7.93	3.6	24.80 sq. inches	<b>\$175.00</b>	<b>\$106.70</b>
<b>T1500-PG-4-KIA</b>	  <b>KIA (Heel Safe)</b>	ductile iron with KIA pattern	19.70"/4.80"/1.78"	D - Extra Heavy Duty	SW 3.94" x 0.22" (SW 100 x 5.7 mm)	9.48	4.3	32.95 sq. inches	<b>\$120.00</b>	<b>\$73.17</b>
<b>T1500-PG-4-VIA</b>	  <b>VIA (Heel Safe)</b>	ductile iron with VIA	19.70"/4.80"/1.78"	D - Extra Heavy Duty	SW 1.41" x 0.23" (SW 29 x 6 mm)	9.48	4.3	30.25 sq. inches	<b>\$120.00</b>	<b>\$73.17</b>
<b>T1500-PG-4-WVY</b>	  <b>WAVE (Heel Safe)</b>	ductile iron with WAVE pattern	19.70"/4.80"/1.78"	D - Extra Heavy Duty	SW 0.31" (SW 8 mm)	8.03	3.6	34.10 sq. inches	<b>\$120.00</b>	<b>\$73.17</b>
<b>T1500-PG-4</b>	 <b>Slotted</b>	ductile iron	19.70"/4.80"/1.78"	E - Extra Heavy Duty	0.55" wide x 3.94" slots (14x100 mm)	8.38	3.8	36.00 sq. inches	<b>\$105.00</b>	<b>\$64.02</b>
<b>T1500-PG-4-13</b>	 <b>Slotted</b>	galvanized ductile iron	19.70"/4.80"/1.78"	E - Extra Heavy Duty	0.55" wide x 3.94" slots (14x100 mm)	8.38	3.8	36.00 sq. inches	<b>\$225.00</b>	<b>\$137.20</b>
<b>T1500-PG-4-VILLE</b>	  <b>VILLE (Heel Safe)</b>	ductile iron	19.70"/4.80"/1.78"	E - Extra Heavy Duty	0.31" wide slots (SW 8 mm)	11.46	5.2	24.80 sq. inches	<b>\$165.00</b>	<b>\$100.61</b>

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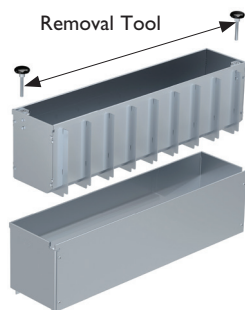
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## Available grates for the T1500, T1560 and T1700 Trench Drains

**Note: Stainless Steel grates should only be used with stainless steel edge rail channels.**

<p><b>T1500 T1560 T1700</b></p> <p>Wedge wire non slip ADA compliant grates. Type 304 Stainless steel. (WW) (Load Class B)</p>	<p><b>T1500 T1560 T1700</b></p> <p>Mesh / ADA compliant grates. Galvanized or Type 304 Stainless steel. (FMC or FMSC) (Load Class C)</p>	<p><b>T1500 T1560</b></p> <p>Slotted grates. Galvanized or Type 304 Stainless steel. (FSC or FSSC) (Load Class C) (Also, FSA or FSSA - Load Class A)</p>	<p><b>T1500 T1560 T1700</b></p> <p>Perforated Heel Safe / ADA compliant grates. Galvanized or Type 304 Stainless steel. (FPC or FSPC) (Load Class C)</p>
<p><b>T1500 T1560</b></p> <p>Slot top Heel Safe / ADA compliant grates. Galvanized or Type 304 Stainless steel. (SL or SSL) (Load Class C)</p>	<p><b>T1500 T1560</b></p> <p>Honeycomb COMBee plastic Heel Safe / ADA compliant grates with anti-slip surface. (PGC) (Load Class C)</p>	<p><b>T1500 T1560</b></p> <p>Ductile iron longitudinal bar Heel Safe / ADA compliant grates. (ADA) (Load Class C)</p>	<p><b>T1500 T1560 T1700</b></p> <p>Ductile iron WAVE pattern Heel Safe / ADA compliant grates. (WAVE) (Load Class D)</p>
<p><b>T1500 T1560 T1700</b></p> <p>Ductile iron VIA pattern Heel Safe / ADA compliant grates. (VIA) (Load Class D)</p>	<p><b>T1500 T1560 T1700</b></p> <p>Ductile iron KIA pattern Heel Safe / ADA compliant grates. (KIA) (Load Class D)</p>	<p><b>T1500 T1560 T1700</b></p> <p>Ductile iron slotted grates. (-4 or -4-13) (Load Class E)</p>	<p><b>T1500 T1560 T1700</b></p> <p>Ductile iron Heel Safe / ADA compliant grates. (VILLE) (Load Class E)</p>



The Maintenance Unit is used with the Paverslot SL and SSL Slot Top Grating and fits into the top of the catch basin. The box is removable to provide access for cleaning/maintenance. The removal tool is a set of 2 knobs which are used to lift the removable part on the maintenance unit.



ADA grates are designed to have open slots no greater than 0.5 inches (13mm) wide in one direction. If the length of the slot is greater than 0.5 inches, the opening shall run perpendicular to the main direction.



Heel Resistant grates are designed to resist entry of heeled shoes. The maximum grate hole size in the minimum dimension shall be 0.31" (8mm) per ASME Standard A112.6.3, Section 7.12.

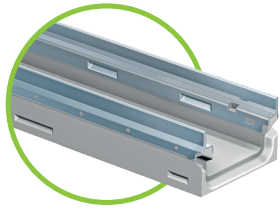


Heel Safe grates are designed to resist entry of high stiletto heels. The maximum grate hole size in the minimum dimension shall be 0.23" (6mm).

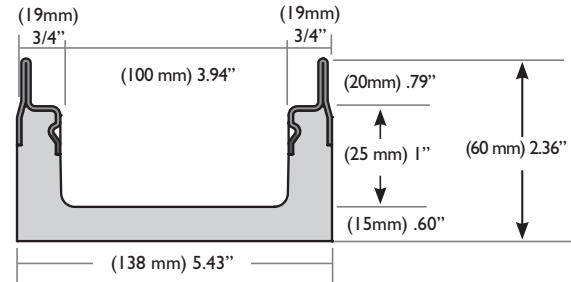
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## T1560 - 4" Internal body width, Shallow Body (Only 2.36" Deep)



FILCOTEN HPC T1560 with integral 4mm thick integral galvanized steel rails and the T1560-3 with 4mm thick integral stainless steel rails.



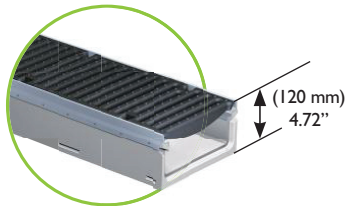
*"I have found that the integral rail that the MIFAB FILCOTEN trench drains have built into them saves me time and labor because I do not have to install a separate frame."* — Dimitri, Owner, Access Plumbing, Brooklyn, NY

Body Part Number					Invert Body Depth		Overall Body Depth		Maximum Flow Rate			Weight (Less Grate)	
Galvanized Steel Integral Rails	List Price, Each Body (1 Meter long)	Stainless Steel Integral Rails	List Price, Each Body (1 Meter long)	Body type Slope	E1 (Min.)	E2 (Max.)	E1 (Min.)	E2 (Max.)	GPM*	LPS*	CFS*	Lbs.	kg.
<b>T1560</b>	<b>\$180.00</b>	<b>T1560-3</b>	<b>\$356.00</b>	Neutral 0 %	1" (25 mm)	1" (25 mm)	2.36" (60 mm)	2.36" (60 mm)	4.75	.30	0.011	18.73	8.5

**Note:** The T1500 and T1560 use the same grates.

**Shallow bodies are also available in 8" and 12" internal width bodies.**

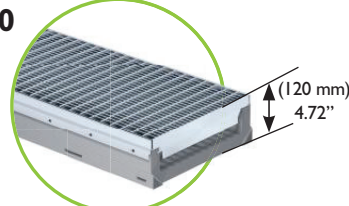
### T1760



FILCOTEN HPC pro with integral galvanized steel or stainless steel 4mm rails, 8" internal width T1760.

**Note:** The T1760 bodies fit with the T1700 grates - see page 15 for grate pricing.

### T1860

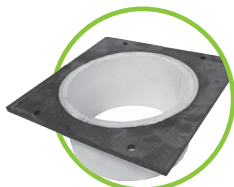


FILCOTEN HPC pro with integral galvanized steel 4mm rails, 12" internal width T1860.

**Note:** The T1860 bodies fit with the T1800 grates - see page 16 for grate pricing.

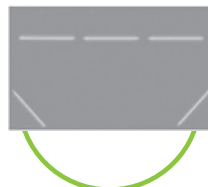
Body Part Number	Description	List Price, Each Body
<b>T1760</b>	with integral galvanized steel rails, 8" internal width	<b>\$400.00 per meter (body only)</b>
<b>T1760-3</b>	with integral stainless steel rails, 8" internal width	<b>\$585.00 per meter (body only)</b>
<b>T1860</b>	with galvanized steel rails, 12" internal width	<b>\$615.00 per meter (body only)</b>

### Accessories FILCOTEN HPC T1560



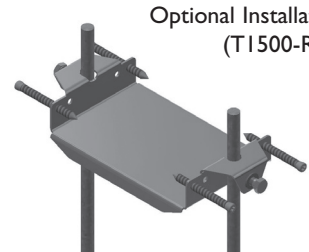
T1560-PBO2 No Hub Bottom Outlet (2") **\$49.00 List Price**

**Note:** 2" is the largest bottom outlet. End outlets are not available.



T1560-PEC Front / End Cap **\$49.00 List Price**

### T1500-REB (Installation Device)



Optional Installation Device (T1500-REB)

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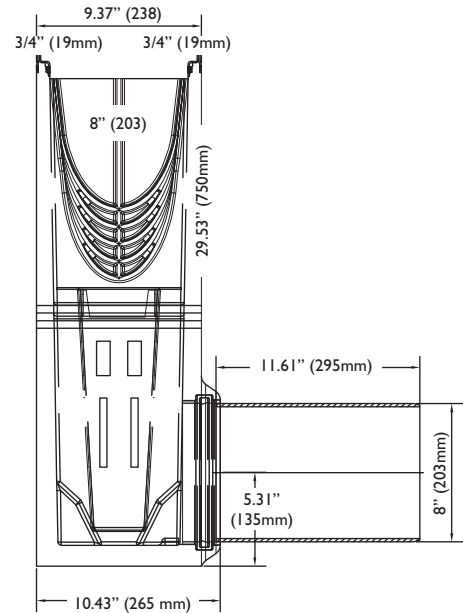
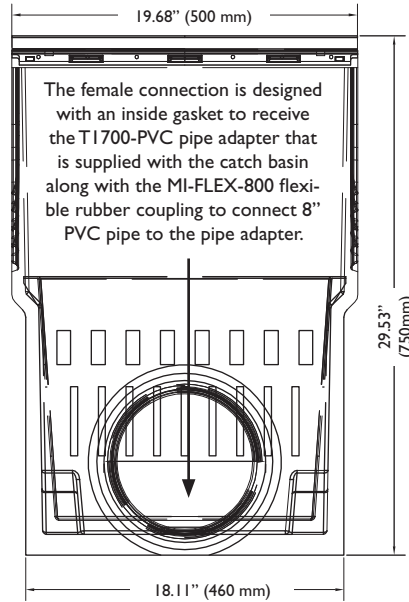
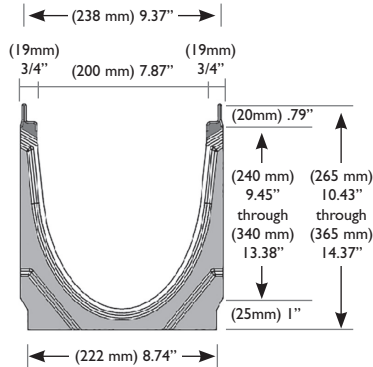
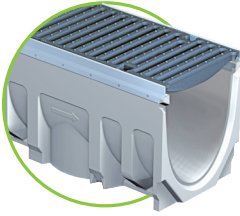
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FILCOTEN HPC T1700 including integral.  
Galvanized Steel rails (T1700-PG-4 grate illustrated)



**Note:** The T1700-ST (step connector) is required to connect the T1700N and T1700N-3 bodies to the T1710N and T1710N-3 and also to connect the T1710N and T1710N-3 bodies to the T1720N and T1720N-3. Pages 20 and 21 explain why neutral bodies are just as good to use as sloped bodies.

**Note:** The maximum flow rate represents the maximum flow in the trench itself. The number and size of the outlets will determine the maximum flow rate of the trench system.

\*GPM = Gallons per Minute

\*CFS=Cubic Feet per Second

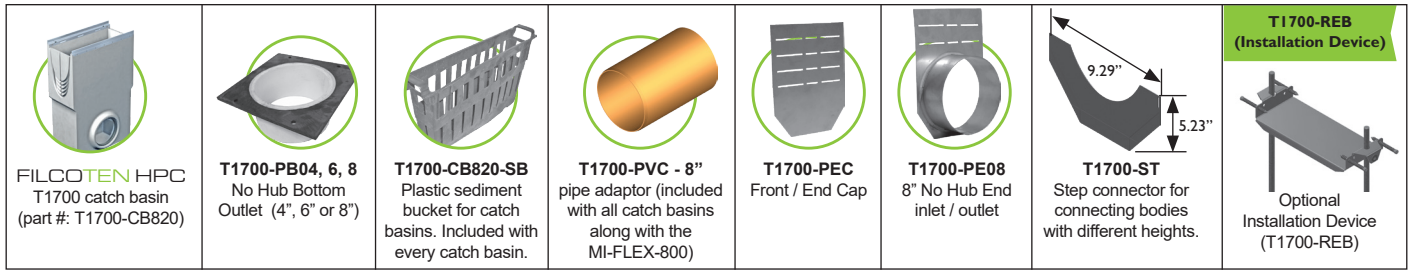
\*LPS = Litres per Second

Galvanized Steel Integral Rails	List Price Each, Add (1 Meter long)	Stainless Steel Integral Rails	List Price Each, Add (1 Meter long)	Body Type	Slope	Invert Body Depth E1 (Min.) E2 (Max.)	Overall Body Depth E1 (Min.) E2 (Max.)	Maximum Flow Rate (See note above)			Weight (Less Grate)	
								GPM*	LPS*	CFS*	Lbs.	Kg.
<b>T1700N</b>	<b>\$345.00</b>	<b>T1700N-3</b>	<b>\$540.00</b>	neutral	0%	9.45" 9.45"	10.43" 10.43"	369.0	23.0	0.8	97	44.0
<b>T1701</b>	<b>\$345.00</b>	<b>T1701-3</b>	<b>\$540.00</b>	sloped	.5%	9.45" 9.65"	10.43" 10.63"	369.0	23.0	0.8	98.1	44.5
<b>T1702</b>	<b>\$345.00</b>	<b>T1702-3</b>	<b>\$540.00</b>	sloped	.5%	9.65" 9.84"	10.63" 10.83"	369.0	23.0	0.8	100.3	45.5
<b>T1703</b>	<b>\$345.00</b>	<b>T1703-3</b>	<b>\$540.00</b>	sloped	.5%	9.84" 10.04"	10.83" 11.02"	369.0	23.0	0.8	102.5	46.5
<b>T1704</b>	<b>\$345.00</b>	<b>T1704-3</b>	<b>\$540.00</b>	sloped	.5%	10.04" 10.24"	11.02" 11.22"	369.0	23.0	0.8	104.9	47.6
<b>T1705</b>	<b>\$345.00</b>	<b>T1705-3</b>	<b>\$540.00</b>	sloped	.5%	10.24" 10.44"	11.22" 11.42"	369.0	23.0	0.8	107.1	48.6
<b>T1705N</b>	<b>\$345.00</b>	<b>T1705N-3</b>	<b>\$540.00</b>	neutral	0%	10.44" 10.44"	11.42" 11.42"	439.0	28.0	1.0	108.7	49.3
<b>T1706</b>	<b>\$345.00</b>	<b>T1706-3</b>	<b>\$540.00</b>	sloped	.5%	10.44" 10.63"	11.42" 11.61"	439.0	28.0	1.0	109.6	49.7
<b>T1707</b>	<b>\$345.00</b>	<b>T1707-3</b>	<b>\$540.00</b>	sloped	.5%	10.63" 10.83"	11.61" 11.81"	439.0	28.0	1.0	111.8	50.7
<b>T1708</b>	<b>\$345.00</b>	<b>T1708-3</b>	<b>\$540.00</b>	sloped	.5%	10.83" 11.02"	11.81" 12.01"	439.0	28.0	1.0	114.2	51.8
<b>T1709</b>	<b>\$345.00</b>	<b>T1709-3</b>	<b>\$540.00</b>	sloped	.5%	11.02" 11.22"	12.01" 12.20"	439.0	28.0	1.0	116.4	52.8
<b>T1710</b>	<b>\$345.00</b>	<b>T1710-3</b>	<b>\$540.00</b>	sloped	.5%	11.22" 11.42"	12.20" 12.40"	439.0	28.0	1.0	118.8	53.9
<b>T1710N</b>	<b>\$345.00</b>	<b>T1710N-3</b>	<b>\$540.00</b>	neutral	0%	11.42" 11.42"	12.40" 12.40"	515.0	33.0	1.2	119.7	54.3
<b>T1711</b>	<b>\$345.00</b>	<b>T1711-3</b>	<b>\$540.00</b>	sloped	.5%	11.42" 11.61"	12.40" 12.60"	515.0	33.0	1.2	120.6	54.7
<b>T1712</b>	<b>\$345.00</b>	<b>T1712-3</b>	<b>\$540.00</b>	sloped	.5%	11.61" 11.81"	12.60" 12.80"	515.0	33.0	1.2	122.6	55.6
<b>T1713</b>	<b>\$345.00</b>	<b>T1713-3</b>	<b>\$540.00</b>	sloped	.5%	11.81" 12.01"	12.80" 12.99"	515.0	33.0	1.2	124.3	56.4
<b>T1714</b>	<b>\$345.00</b>	<b>T1714-3</b>	<b>\$540.00</b>	sloped	.5%	12.01" 12.20"	12.99" 13.19"	515.0	33.0	1.2	126.3	57.3
<b>T1715</b>	<b>\$345.00</b>	<b>T1715-3</b>	<b>\$540.00</b>	sloped	.5%	12.20" 12.40"	13.19" 13.39"	515.0	33.0	1.2	128.1	58.1
<b>T1716</b>	<b>\$345.00</b>	<b>T1716-3</b>	<b>\$540.00</b>	sloped	.5%	12.40" 12.60"	13.39" 13.58"	515.0	33.0	1.2	130.1	59.0
<b>T1717</b>	<b>\$345.00</b>	<b>T1717-3</b>	<b>\$540.00</b>	sloped	.5%	12.60" 12.80"	13.58" 13.78"	515.0	33.0	1.2	131.8	59.8
<b>T1718</b>	<b>\$345.00</b>	<b>T1718-3</b>	<b>\$540.00</b>	sloped	.5%	12.80" 12.99"	13.78" 13.98"	515.0	33.0	1.2	133.8	60.7
<b>T1719</b>	<b>\$345.00</b>	<b>T1719-3</b>	<b>\$540.00</b>	sloped	.5%	12.99" 13.19"	13.98" 14.17"	515.0	33.0	1.2	135.6	61.5
<b>T1720</b>	<b>\$345.00</b>	<b>T1720-3</b>	<b>\$540.00</b>	sloped	.5%	13.19" 13.38"	14.17" 14.37"	515.0	33.0	1.2	137.4	62.3
<b>T1720N</b>	<b>\$345.00</b>	<b>T1720N-3</b>	<b>\$540.00</b>	neutral	0%	13.38" 13.38"	14.37" 14.37"	678.0	43.0	1.5	138.2	62.7

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"The great service that I receive from my local MIFAB representative has helped me on FILCOTEN concrete trench drain jobs."

— Jay Lyons, Manager, Parkview Plumbing, The Bronx, NY



Model Number	Description	Material	Weight LBS	kg.	List Price, Each, Add
<b>T1700-CB820</b>	Catch basin 8" wide with galvanized steel rails and 8" outlet with seal Note: 8" pipe adapter (T1700-PVC) and MI-FLEX-800 is included with every catch basin. The sediment bucket is also included.	FILCOTEN HPC	105.82	48.0	<b>\$785.00</b>
<b>T1700-3-CB820</b>	Catch basin 8" wide with stainless steel rails and 8" outlet with seal Note: 8" pipe adapter (T1700-PVC) and MI-FLEX-800 is included with every catch basin. The sediment bucket is also included.	FILCOTEN HPC	105.82	48.0	<b>\$1,045.00</b>
<b>T1700-CB820-SB</b>	Plastic sediment bucket for catch basin (included with every catch basin)	plastic	1.54	0.7	<b>\$191.00</b>
<b>T1700-PB04</b>	4" No Hub Bottom Outlet	plastic	2.42	1.1	<b>\$90.00</b>
<b>T1700-PB06</b>	6" No Hub Bottom Outlet	plastic	2.42	1.1	<b>\$90.00</b>
<b>T1700-PB08</b>	8" No Hub Bottom Outlet	plastic	2.42	1.1	<b>\$90.00</b>
<b>T1700-PE08</b>	8" No Hub End Inlet / Outlet	galvanized steel	2.42	1.1	<b>\$90.00</b>
<b>T1700-PEC</b>	Front / End Cap	plastic	1.54	0.7	<b>\$41.00</b>
<b>T1700-PGLVP</b>	Vandal proof grate lockdown*	galvanized steel	0.22	0.1	<b>\$64.00</b>
<b>T1700-REB</b>	Installation Device	galvanized steel	6.61	3.0	<b>\$40.00</b>
<b>T1700-ST</b>	Step connector for T1700N / T1710N / T1720N	FILCOTEN HPC	0.35	0.16	<b>\$41.00</b>
<b>T1700-PBDS</b>	Bottom Dome Strainer	plastic	0.20	0.1	<b>\$55.00</b>
<b>T1700-CUT</b>	Cutting / per cut (includes body and grate)	-	-	-	<b>\$450.00</b>
<b>Tees</b>	Fabricated tee (includes grate)	-	-	-	<b>\$550.00 (\$750.00 for the -3 (S.S.) bodies)</b>
<b>45°</b>	45° (includes grate)	45° body section	-	-	<b>\$550.00 (\$750.00 for the -3 (S.S.) bodies)</b>
<b>90°</b>	90° (includes grate)	90° body section	-	-	<b>\$550.00 (\$750.00 for the -3 (S.S.) bodies)</b>

### Gratings FILCOTEN HPC T1 700 with fiX self-locking system

Model Number	Grate Type	Material	Dimensions	Load Class per EN 1433 / ANSI A112.21.1M	Slot / Hole Width	Weight/pc. LBS	kg.	Inlet cross-section (Free Area)	List Price, Each, Add	List Price, Per Foot, Add
<b>T1700-PG-WW</b>	 <b>Slotted (non slip)</b>	stainless steel	39.40"/8.74"/0.78"	B - Medium Duty	.24" wide x 1.61" slots (6x41 mm)	12.0	5.45	178.40 sq. inches	<b>\$1,190.00</b>	<b>\$362.80</b>
<b>T1700-PG-WW-500</b>	 <b>Slotted (non slip)</b>	stainless steel	19.70"/8.74"/0.78"	B - Medium Duty	.24" wide x 1.61" slots (6x41 mm)	9.0	4.09	89.2 sq. inches	<b>\$650.00</b>	<b>\$396.34</b>
<b>T1700-PG-FPC</b>	 <b>Perforated (Heel Safe)</b>	galvanized steel	39.40"/8.74"/0.78"	C - Heavy Duty	Ø 1/4" hole (6.0 mm)	29.76	13.5	44.64 sq. inches	<b>\$660.00</b>	<b>\$201.22</b>
<b>T1700-PG-FPC-500</b>	 <b>Perforated (Heel Safe)</b>	galvanized steel	19.70"/8.74"/0.78"	C - Heavy Duty	Ø 1/4" hole (6.0 mm)	14.77	6.7	22.32 sq. inches	<b>\$529.00</b>	<b>\$322.56</b>
<b>T1700-PG-FSPC</b>	 <b>Perforated (Heel Safe)</b>	stainless steel	39.40"/8.74"/0.78"	C - Heavy Duty	Ø 1/4" hole (6.0 mm)	29.76	13.5	44.64 sq. inches	<b>\$1,474.00</b>	<b>\$449.39</b>
<b>T1700-PG-FSPC-500</b>	 <b>Perforated (Heel Safe)</b>	stainless steel	19.70"/8.74"/0.78"	C - Heavy Duty	Ø 1/4" hole (6.0 mm)	14.77	6.7	22.32 sq. inches	<b>\$1,182.00</b>	<b>\$720.73</b>
<b>T1700-PG-FMC</b>	 <b>Mesh</b>	galvanized steel	39.40"/8.74"/0.78"	C - Heavy Duty	.39" wide x 1.18" (10 mm x 30 mm)	19.40	8.8	255.75 sq. inches	<b>\$515.00</b>	<b>\$157.01</b>
<b>T1700-PG-FMC-500</b>	 <b>Mesh</b>	galvanized steel	19.70"/8.74"/0.78"	C - Heavy Duty	.39" wide x 1.18" (10 mm x 30 mm)	9.92	4.5	123.62 sq. inches	<b>\$415.00</b>	<b>\$253.05</b>
<b>T1700-PG-4-VIA</b>	 <b>VIA (Heel Safe)</b>	ductile iron	19.70"/8.74"/0.78"	D - Extra Heavy Duty	SW 1.41" x 0.23" (SW 29 x 6 mm)	18.52	8.4	48.40 sq. inches	<b>\$252.00</b>	<b>\$153.66</b>
<b>T1700-PG-4-KIA</b>	 <b>KIA (Heel Safe)</b>	ductile iron	19.70"/8.74"/0.78"	D - Extra Heavy Duty	SW 7.87" x 0.22" (SW 200 x 5.7 mm)	20.72	9.4	60.05 sq. inches	<b>\$252.00</b>	<b>\$153.66</b>
<b>T1700-PG-4</b>	 <b>Slotted</b>	ductile iron	19.70"/8.74"/0.78"	E - Extra Heavy Duty	0.55" wide x 7.87" slots (14x200 mm)	19.62	8.9	74.80 sq. inches	<b>\$263.00</b>	<b>\$160.37</b>
<b>T1700-PG-4-13</b>	 <b>Slotted</b>	galvanized ductile iron	19.70"/8.74"/0.78"	E - Extra Heavy Duty	0.55" wide x 7.87" slots (14x200 mm)	19.62	8.9	74.80 sq. inches	<b>\$363.00</b>	<b>\$221.34</b>
<b>T1700-PG-4-VILLE</b>	 <b>VILLE (Heel Safe)</b>	ductile iron	19.70"/8.74"/0.78"	E - Extra Heavy Duty	0.31" wide slots (SW 8 mm)	23.59	10.7	45.70 sq. inches	<b>\$300.00</b>	<b>\$182.93</b>

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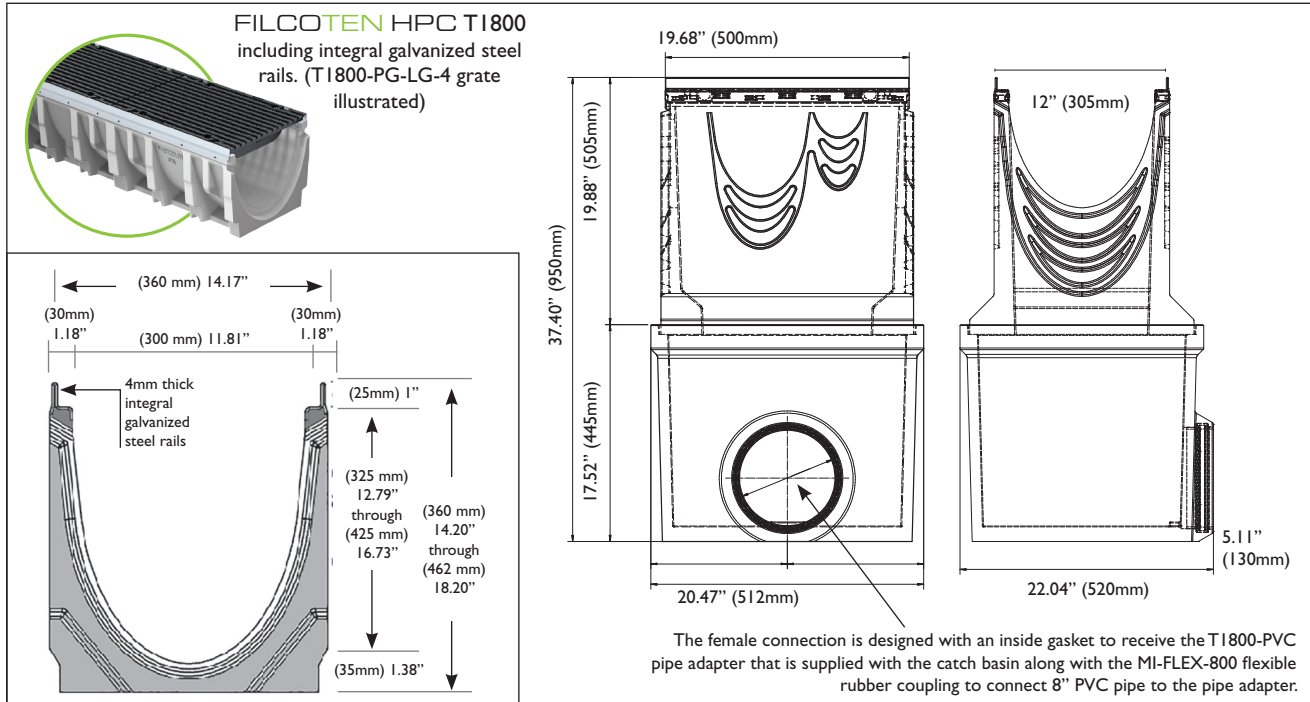
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### FILCOTEN HPC T1800

Body Part Number with galvanized steel rails	List Price, Each, Add (1 Meter long)	Body type	Slope	Invert Body Depth		Overall Body Depth		Maximum Flow Rate			Weight (Less Grate)	
				E1 (Min.)	E2 (Max.)	E1 (Min.)	E2 (Max.)	GPM*	LPS*	CFS*	Lbs.	kg.
<b>T1800N</b>	<b>\$611.00</b>	Neutral	0 %	12.79	12.79	14.20"	14.20"	870.20	54.90	1.94	170.42	77.30
<b>T1810N</b>	<b>\$611.00</b>	Neutral	0 %	14.76	14.76	16.20"	16.20"	1103.20	69.60	2.46	199.08	90.30
<b>T1820N</b>	<b>\$611.00</b>	Neutral	0 %	16.73	16.73	18.20"	18.20"	1348.90	85.10	3.01	244.05	110.70

\*GPM = Gallons per Minute

\*LPS = Litres per Second

\*CFS=Cubic Feet per Second

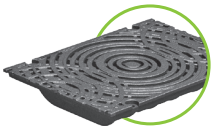
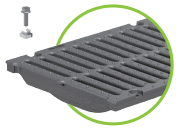
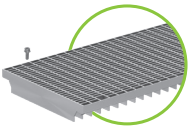
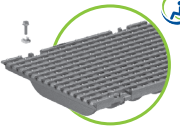
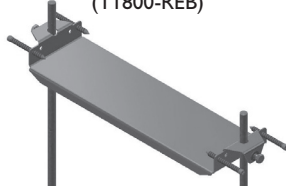

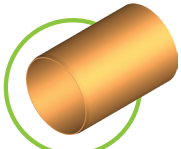
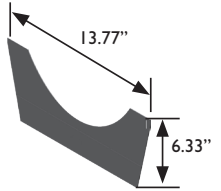
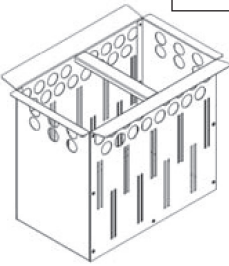


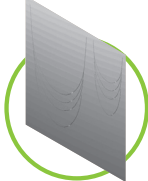
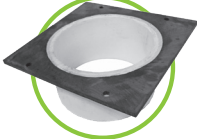

14.20"	T1800N	T1810N	T1820N	18.20"
	NEUTRAL	NEUTRAL	NEUTRAL	

**Note: The maximum flow rate represents the maximum flow in the trench itself. The number and size of the outlets will determine the maximum flow rate of the trench system.**

### Gratings FILCOTEN HPC T1800 with 4-point locking

Model Number	Grate Type	Material	Dimensions	Load Class per EN 1433 / ANSI A112.21.1M	Slot / Mesh Width	Weight/pc.		Inlet cross-section (Free Area)	List Price, Each, Add	List Price, Per Foot, Add
						LBS	kg.			
<b>T1800-PG-FMC-500</b>	Mesh	Galvanized steel	19.70"/13.66"/0.98"	C - Heavy Duty	.39" wide x 1.18" (10 mm x 30 mm)	25.57	11.60	177.86 sq. inches	<b>\$971.00</b>	<b>\$592.07</b>
<b>T1800-PG-FMC</b>	Mesh	Galvanized steel	39.40"/13.66"/0.98"	C - Heavy Duty	.39" wide x 1.18" (10 mm x 30 mm)	50.92	23.10	357.27 sq. inches	<b>\$1,215.00</b>	<b>\$370.43</b>
<b>T1800-PG-4-VILLE</b>	VILLE (Heel Safe)	Ductile iron	19.70"/13.66"/0.98"	E - Extra Heavy Duty	0.31" wide slots (SW 8 mm)	43.87	19.9	82.20 sq. inches	<b>\$585.00</b>	<b>\$356.71</b>
<b>T1800-PG-LG-4</b>	Longitudinal	Ductile iron	19.70"/13.66"/0.98"	E - Extra Heavy Duty	1.14" by 0.51" (29x13 mm)	29.32	13.30	113.54 sq. inches	<b>\$390.00</b>	<b>\$237.80</b>
<b>T1800-PG-LG-4-13</b>	Longitudinal	Galvanized Ductile iron	19.70"/13.66"/0.98"	E - Extra Heavy Duty	1.14" by 0.51" (29x13 mm)	29.32	13.30	113.54 sq. inches	<b>\$490.00</b>	<b>\$298.78</b>
<b>T1800-PG-4</b>	Slotted	Ductile iron	19.70"/13.66"/0.98"	F - Special Duty	5.51" x .63" (140x16mm)	49.16	22.30	88.35 sq. inches	<b>\$615.00</b>	<b>\$375.00</b>
<b>T1800-PG-4-13</b>	Slotted	Galvanized Ductile iron	19.70"/13.66"/0.98"	F - Special Duty	5.51" x .63" (140x16mm)	49.16	22.30	88.35 sq. inches	<b>\$750.00</b>	<b>\$457.32</b>
<b>T1800-BOLT-4</b>	Bolts / nuts (galvanized steel) for all ductile iron grates (8 pieces provided per meter)								<b>Included</b>	<b>-</b>
<b>T1800-BOLT-FMC</b>	Bolts / nuts (galvanized steel) for FMC grates (8 pieces provided per meter)								<b>Included</b>	<b>-</b>

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 <p>Ductile iron Heel Safe / ADA compliant grate with four point lockdown (T1800-PG-4-VILLE)</p>	 <p>Ductile iron grate with four point lockdown (T1800-PG-4)</p>	 <p>Galvanized steel mesh grate with four point lockdown (T1800-FMC)</p>	 <p>Ductile Iron longitudinal bar grate with four point lockdown (T1800-PG-LG-4)</p>	<p><b>T1800-REB (Installation Device)</b></p> <p>Optional Installation Device (T1800-REB)</p> 
 <p>T1800-PEC Front / End Cap</p>	 <p>T1800-PVC - 8" pipe adaptor (included with all catch basins along with the MI-FLEX-800)</p>	 <p>T1800-ST - Step connector for connecting bodies with different heights.</p>	 <p>T1800-CB1220-SB Galvanized steel sediment bucket for catch basins. Included with every catch basin.</p>	
<p>FILCOTEN HPC T1800 catch basin</p> 	 <p>T1800-CB-EXT Optional catch basin extension</p>	 <p>T1800-CB-PEC Optional catch basin end cap (to be installed on outside of catch basin)</p>	 <p>T1800-PBO8 or 10 No Hub Bottom Outlet (8" or 10")</p>	 <p>T1800-PEO8 - 8" No Hub End Inlet / Outlet</p>

### Accessories FILCOTEN HPC T1800

Model Number	Description	Material	Weight		List Price, Each, Add
			LBS	kg.	
<b>T1800-CB1220</b>	Catch basin, 12" wide with galvanized steel rails and 8" outlet with seal. Note: 8" pipe adapter (T1800-PVC) and MI-FLEX-800 is included with every catch basin. The sediment bucket is also included.	FILCOTEN HPC	237.37	124.0	<b>\$1,628.00</b>
<b>T1800-CB-EXT</b>	Catch basin extension unit	FILCOTEN HPC	93.69	42.5	<b>\$480.00</b>
<b>T1800-CB-PEC</b>	Catch basin adapter plates for connection with T1500 and T1700	galvanized steel	3.8	1.7	<b>\$131.00</b>
<b>T1800-CB1220-SB</b>	Sediment bucket for catch basin (included with every catch basin)	galvanized steel	7.1	3.2	<b>\$641.00</b>
<b>T1800-PBO8</b>	8" No Hub Bottom Outlet	galvanized steel	3.8	1.7	<b>\$71.00</b>
<b>T1800-PBO10</b>	10" No Hub Bottom Outlet	galvanized steel	3.8	1.7	<b>\$100.00</b>
<b>T1800-PEO8</b>	8" No Hub End Inlet / Outlet	galvanized steel	3.8	1.7	<b>\$71.00</b>
<b>T1800-PEO10</b>	10" No Hub End Outlet	galvanized steel	3.8	1.7	<b>\$100.00</b>
<b>T1800-PEC</b>	Front / End Cap	galvanized steel	3.8	1.7	<b>\$79.00</b>
<b>T1800-REB</b>	Installation Device	galvanized steel	7.50	3.41	<b>\$45.00</b>
<b>T1800-ST</b>	Step connector for T1800N / T1810N / T1820N	galvanized steel	0.45	0.20	<b>\$79.00</b>
<b>T1800-PBDS</b>	Bottom Dome Strainer	plastic	0.20	0.1	<b>\$60.00</b>
<b>T1800-PGLVP</b>	Vandal Proof Grate Lockdown	stainless steel	-	-	<b>\$41.00</b>
<b>T1800-CUT</b>	Cutting / per cut (includes body and grate)	-	-	-	<b>\$1,000.00</b>
<b>Tees</b>	Fabricated tee	-	-	-	<b>\$1,375.00</b>
<b>45°</b>	45° body section (includes grate)	-	-	-	<b>\$1,375.00</b>
<b>90°</b>	90° body section (includes grate)	-	-	-	<b>\$1,375.00</b>



Accessory details including additional images = page 22

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## SYSTEM PRICING

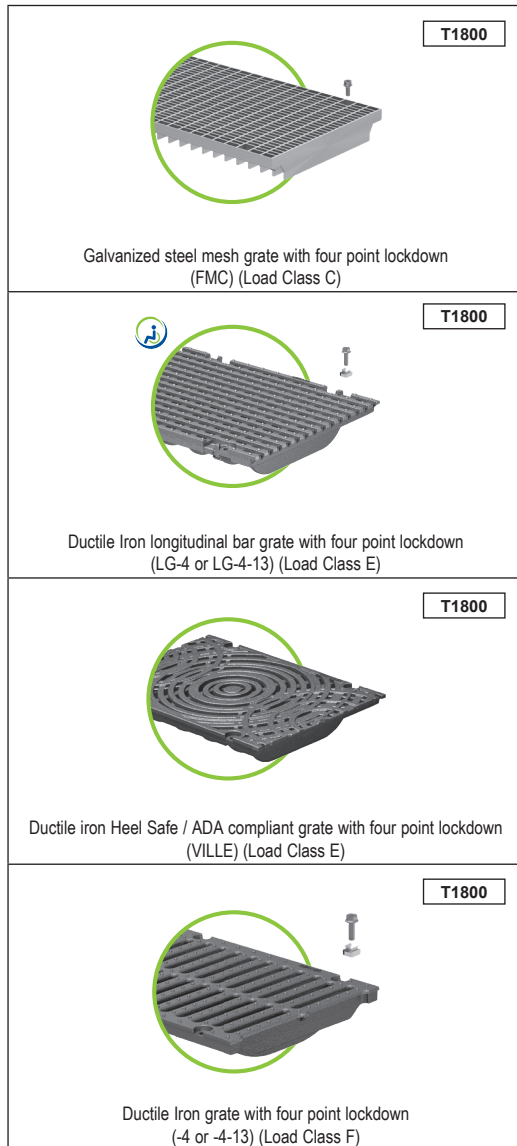
Model No.	Description	\$ / per foot
<b>T1500 - 4" internal width - \$ / foot List Prices</b> (channel and galvanized steel edge rails with grate and fiX grate locking clips)		
FSA	Class A galvanized slotted steel grate	\$57.16
FSC	Class C galvanized slotted steel grate	\$104.80
FPC	Class C galvanized perforated steel grate	\$114.33
PGC	Class C plastic perforated honeycomb grate	\$112.20
FMC	Class C galvanized steel mesh grate	\$107.47
SL	Class C galvanized steel Paverslot grate	\$155.49
ADA	Class C ductile iron longitudinal bar grate	\$98.33
ADA-13	Class C ductile iron, galvanized, longitudinal bar grate	\$152.44
KIA	Class D ductile iron, KIA pattern grate	\$118.90
VIA	Class D ductile iron, VIA pattern grate	\$118.90
WVY	Class D ductile iron, WAVE pattern grate	\$118.90
VILLE	Class E ductile iron VILLE ADA grate	\$146.34
-4	Class E ductile iron slotted grate	\$109.76
-4-13	Class E ductile iron, galvanized slotted grate	\$182.93
<b>T1500-3 - 4" internal width - \$ / foot List Prices</b> (channel and stainless steel edge rails with grate and fiX grate locking clips)		
FSSA	Class A stainless steel slotted steel grate	\$163.11
WW	Class B stainless steel wedgewire grate	\$342.99
FSSC	Class C stainless steel slotted steel grate	\$252.29
FSPC	Class C stainless steel perforated steel grate	\$308.31
PGC	Class C plastic perforated honeycomb grate	\$160.98
FMSC	Class C stainless steel mesh grate	\$295.73
SSL	Class C stainless steel Paverslot grate	\$275.30
ADA	Class C ductile iron longitudinal bar grate	\$147.10
KIA	Class D ductile iron, KIA pattern grate	\$167.68
VIA	Class D ductile iron, VIA pattern grate	\$167.68
WVY	Class D ductile iron, WAVE pattern grate	\$167.68
VILLE	Class E ductile iron VILLE ADA grate	\$195.12
-4	Class E ductile iron slotted grate	\$158.54
-4-13	Class E ductile iron, galvanized slotted grate	\$231.71
<b>T1560 - 4" internal width, mini, 60mm high - \$ / foot List Prices</b> (channel and galvanized steel edge rails with grate and fiX grate locking clips)		
FSA	Class A galvanized slotted steel grate	\$66.31
FSC	Class C galvanized slotted steel grate	\$113.95
FPC	Class C galvanized perforated steel grate	\$123.48
PGC	Class C plastic perforated honeycomb grate	\$121.34
FMC	Class C galvanized steel mesh grate	\$116.62
SL	Class C galvanized steel Paverslot grate	\$164.63
ADA	Class C ductile iron longitudinal bar grate	\$107.47
ADA-13	Class C ductile iron, galvanized, longitudinal bar grate	\$161.59
KIA	Class D ductile iron, KIA pattern grate	\$128.05
VIA	Class D ductile iron, VIA pattern grate	\$128.05
WVY	Class D ductile iron, WAVE pattern grate	\$128.05
VILLE	Class E ductile iron VILLE ADA grate	\$155.49
-4	Class E ductile iron slotted grate	\$118.90
-4-13	Class E ductile iron, galvanized slotted grate	\$192.07
<b>T1560-3 - 4" internal width, mini, 60mm high - \$ / foot List Prices</b> (channel and stainless steel edge rails with grate and fiX grate locking clips)		
FSSA	Class A stainless steel slotted steel grate	\$177.13
FSSC	Class C stainless steel slotted steel grate	\$266.31
FSPC	Class C stainless steel perforated steel grate	\$322.33
PGC	Class C plastic perforated honeycomb grate	\$175.00
FMSC	Class C stainless steel mesh grate	\$309.76
SSL	Class C stainless steel Paverslot grate	\$289.33
ADA	Class C ductile iron, longitudinal bar grate	\$161.13
KIA	Class D ductile iron, KIA pattern grate	\$181.71
VIA	Class D ductile iron, VIA pattern grate	\$181.71
WVY	Class D ductile iron, WAVE pattern grate	\$181.71
VILLE	Class E ductile iron VILLE ADA grate	\$209.15
-4	Class E ductile iron slotted grate	\$172.56
-4-13	Class E ductile iron, galvanized slotted grate	\$245.73

 <p><b>T1500 T1560 T1700</b></p> <p>Wedgewire non slip ADA compliant grates. Type 304 Stainless steel. (WW) (Load Class B)</p>	 <p><b>T1500 T1560 T1700</b></p> <p>Mesh / ADA compliant grates. Galvanized or Type 304 Stainless steel. (FMC or FMSC) (Load Class C)</p>
 <p><b>T1500 T1560</b></p> <p>Slotted grates. Galvanized or Type 304 Stainless steel. (FSC or FSSC) (Load Class C) (Also, FSA or FSSA - Load Class A)</p>	 <p><b>T1500 T1560 T1700</b></p> <p>Perforated Heel Safe / ADA compliant grates. Galvanized or Type 304 Stainless steel. (FPC or FSPC) (Load Class C)</p>
 <p><b>T1500 T1560</b></p> <p>Slot top Heel Safe / ADA compliant grates. Galvanized or Type 304 Stainless steel. (SL or SSL) (Load Class C)</p>	 <p><b>T1500 T1560</b></p> <p>Honeycomb COMBee plastic Heel Safe / ADA compliant grates with anti-slip surface. (PGC) (Load Class C)</p>
 <p><b>T1500 T1560</b></p> <p>Ductile iron longitudinal bar Heel Safe / ADA compliant grates. (ADA) (Load Class C)</p>	 <p><b>T1500 T1560</b></p> <p>Ductile iron WAVE pattern Heel Safe / ADA compliant grates. (WAVE) (Load Class D)</p>
 <p><b>T1500 T1560 T1700</b></p> <p>Ductile iron VIA pattern Heel Safe / ADA compliant grates. (VIA) (Load Class D)</p>	 <p><b>T1500 T1560 T1700</b></p> <p>Ductile iron KIA pattern Heel Safe / ADA compliant grates. (KIA) (Load Class D)</p>
 <p><b>T1500 T1560 T1700</b></p> <p>Ductile iron slotted grates. (-4 or -4-13) (Load Class E)</p>	 <p><b>T1500 T1560 T1700</b></p> <p>Ductile iron Heel Safe / ADA compliant grates. (VILLE) (Load Class E)</p>

**Note: Stainless Steel grates should only be used with stainless steel edge rail channels.**

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**Note: Stainless Steel grates should only be used with stainless steel edge rail channels.**

Note:

- Channels** List Prices above are based on using one meter long channels.
- Grates** List Prices above are based on their longest available length. If a grate is available in both one meter and half meter lengths; the List Prices are based on the one meter length.
- Lockdowns** The fiX locking clips are included with all of the above grates except for the T1800 grates. The T1800 grates are shipped standard with the 4 point grate lockdowns.

**45's, 90's Catch Basins, Outlets and Endcaps are not included and should be priced separately.**

Model No.	Description	\$ / per foot
<b>T1700 - 8" internal width - \$ / foot List Prices</b> (channel and galvanized steel edge rails with grate and fiX grate locking clips)		
<b>FPC</b>	Class C galvanized perforated steel grate	<b>\$306.40</b>
<b>FMC</b>	Class C galvanized steel mesh grate	<b>\$262.20</b>
<b>KIA</b>	Class D ductile iron, KIA pattern grate	<b>\$258.84</b>
<b>VIA</b>	Class D ductile iron, VIA pattern grate	<b>\$258.84</b>
<b>-4</b>	Class E ductile iron slotted grate	<b>\$265.55</b>
<b>-4-13</b>	Class E ductile iron, galvanized slotted grate	<b>\$326.52</b>
<b>VILLE</b>	Class E ductile iron VILLE ADA grate	<b>\$288.11</b>
<b>T1700-3 - 8" internal width - \$ / foot List Prices</b> (channel and stainless steel edge rails with grate and fiX grate locking clips)		
<b>WW</b>	Class B stainless steel wedgewire grate	<b>\$527.44</b>
<b>FSPC</b>	Class C stainless steel perforated steel grate	<b>\$614.02</b>
<b>KIA</b>	Class D ductile iron, KIA pattern grate	<b>\$318.29</b>
<b>VIA</b>	Class D ductile iron, VIA pattern grate	<b>\$318.29</b>
<b>-4</b>	Class E ductile iron slotted grate	<b>\$325.00</b>
<b>-4-13</b>	Class E ductile iron, galvanized slotted grate	<b>\$385.98</b>
<b>VILLE</b>	Class E ductile iron VILLE ADA grate	<b>\$347.56</b>
<b>T1760 - 8" internal width, 120mm high - \$ / foot List Prices</b> (channel and galvanized steel edge rails with grate and fiX grate locking clips)		
<b>FPC</b>	Class C galvanized perforated steel grate	<b>\$323.17</b>
<b>FMC</b>	Class C galvanized steel mesh grate	<b>\$278.96</b>
<b>KIA</b>	Class D ductile iron, KIA pattern grate	<b>\$275.61</b>
<b>VIA</b>	Class D ductile iron, VIA pattern grate	<b>\$275.61</b>
<b>-4</b>	Class E ductile iron slotted grate	<b>\$282.32</b>
<b>-4-13</b>	Class E ductile iron, galvanized slotted grate	<b>\$343.29</b>
<b>VILLE</b>	Class E ductile iron VILLE ADA grate	<b>\$304.88</b>
<b>T1760-3 - 8" internal width, 120mm high - \$ / foot List Prices</b> (channel and stainless steel edge rails with grate and fiX grate locking clips)		
<b>WW</b>	Class B stainless steel wedgewire grate	<b>\$541.16</b>
<b>FSPC</b>	Class C stainless steel perforated steel grate	<b>\$627.74</b>
<b>KIA</b>	Class D ductile iron, KIA pattern grate	<b>\$332.01</b>
<b>VIA</b>	Class D ductile iron, VIA pattern grate	<b>\$332.01</b>
<b>-4</b>	Class E ductile iron slotted grate	<b>\$338.72</b>
<b>-4-13</b>	Class E ductile iron, galvanized slotted grate	<b>\$399.70</b>
<b>VILLE</b>	Class E ductile iron VILLE ADA grate	<b>\$361.28</b>
<b>T1800 - 12" internal width - \$ / foot List Prices</b> (channel and galvanized steel edge rails with grate and 4 point lockdown)		
<b>FMC</b>	Class C galvanized steel mesh grate	<b>\$556.71</b>
<b>LG-4</b>	Class E ductile iron longitudinal bar grate	<b>\$424.09</b>
<b>LG-4-13</b>	Class E ductile iron, galvanized longitudinal bar grate	<b>\$485.06</b>
<b>VILLE</b>	Class E ductile iron VILLE ADA grate	<b>\$542.99</b>
<b>-4</b>	Class F ductile iron slotted grate	<b>\$561.28</b>
<b>-4-13</b>	Class F ductile iron, galvanized slotted grate	<b>\$643.60</b>
<b>T1860 - 12" internal width, 120mm high - \$ / foot List Prices</b> (channel and galvanized steel edge rails with grate and 4 point lockdown)		
<b>FMC</b>	Class C galvanized steel mesh grate	<b>\$557.93</b>
<b>LG-4</b>	Class E ductile iron longitudinal bar grate	<b>\$425.30</b>
<b>LG-4-13</b>	Class E ductile iron, galvanized longitudinal bar grate	<b>\$486.28</b>
<b>VILLE</b>	Class E ductile iron VILLE ADA grate	<b>\$544.21</b>
<b>-4</b>	Class F ductile iron slotted grate	<b>\$562.50</b>
<b>-4-13</b>	Class F ductile iron, galvanized slotted grate	<b>\$644.82</b>

**All fabrications are not included in the above System List Prices.**

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## Neutral Trench Drain Flow Rates vs. Sloped Trench Drain Flow Rates

**Note: See page 21 for the technical explanation.**

It has been the custom in the United States and Canada to specify trench drain systems that have presloped bodies – under the assumption that presloped trench drains will provide a greater flow of water due to the sloped sections. Like many things in today's world, this custom has been accepted as the common practice. In contrast, for decades, specifiers in Europe specify neutral trench drain systems as their standard design. This is because neutral trench drain systems perform just as well as sloped trench drain systems.

### The advantages for the specifier, building owner, contractor and wholesaler to use neutral trench drain systems are:

1. Faster delivery to the jobsite as fewer sizes of trench drain bodies are needed.
2. Harder to install the incorrect trench drain body in the proper numerical sloped order of the system.
3. Faster installation preparation because one size trench drain body does not require complicated site organization.
4. Faster installation due to same height of the trench drain body. Often, sloped trench drain bodies are mixed on a pallet - requiring time to sort and identify them. This is not the case with neutral bodies.
5. Increased flexibility, because the contractor can easily increase the number of neutral trench drain bodies in order to be have extensions or replacements. This is not possible with sloped trench drain bodies.

The flow rate of a trench drain is affected by three main factors: height of the bodies, width of the bodies and length of the run. Trench drain bodies with a greater height (assuming the width is the same) have more volume capacity and therefore a greater flow rate because the head pressure is greater when the water height is higher. Trench drain bodies that are wider than others have more volume capacity (assuming that the height of the water is the same) and as a result, a higher flow rate.

A typical sloped trench drain system (see Figures 1-A and 1-B in the adjacent page) starts off with a shallow sloped body section and ends with a deeper sloped body section. This means that the body height is not consistent and the volume capacity of the sloped system is less than the volume capacity of a neutral system that has the same body height throughout the run. (see Figures 2-A and 2-B in the adjacent page).

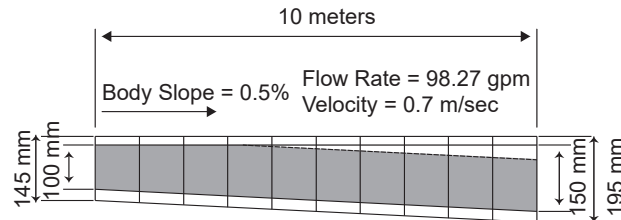
Figures 1-A and 1-B illustrate a typical sloped trench drain system with flow rates of 98.27 GPM in the 30 foot run and 142.60 GPM in the 60 foot run. Figures 2-A and 2-B illustrate the MIFAB – FILCOTEN TI520N neutral trench drain system with flow rates of 99.20 GPM in the 30 foot run and 149.80 GPM in the 60 foot run. Note that the ending body height in a typical sloped 30 foot trench drain system (7.68") is the same as all of the body heights in the MIFAB – FILCOTEN TI510N system (7.68") and the ending body height in a typical sloped trench drain system (9.65") is the same as all of the body heights in the MIFAB – FILCOTEN TI520N system (9.65").

Therefore, take advantage of the greater flow rates and easier installation of the MIFAB-FILCOTEN neutral trench drain systems instead of the industry standard sloped trench drain systems.

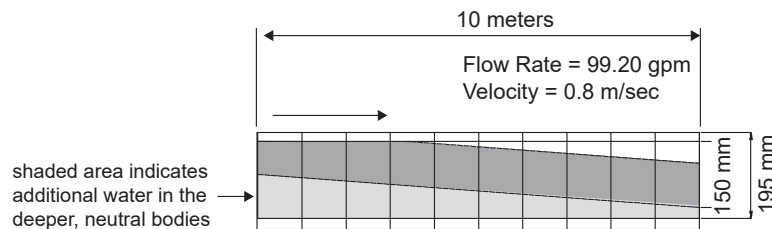
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## Flow rate comparison calculation according to MANNING & STRICKLER

### 6" Wide Sloped vs. Neutral Flow Rate Comparison

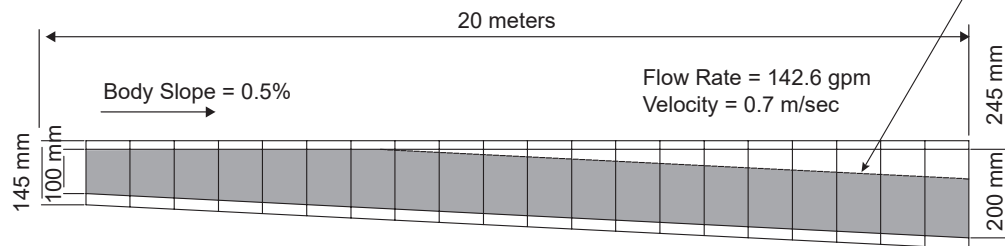


**Figure 1-A Typical Sloped Trench Drain from Others**

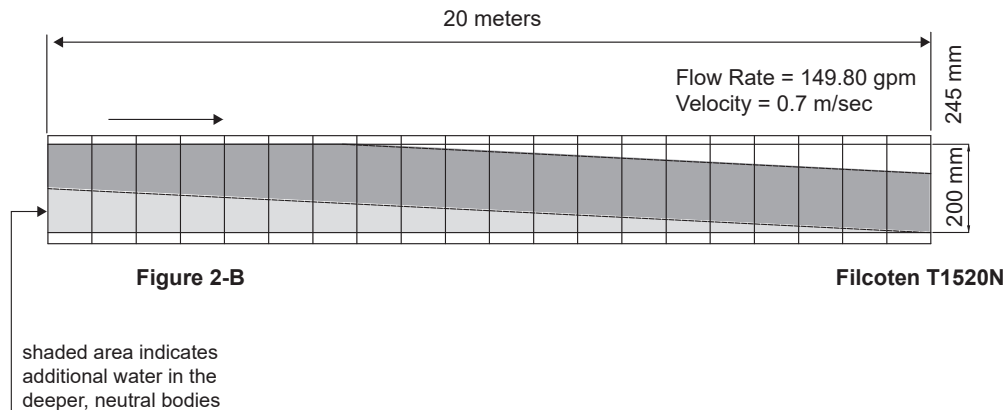


**Figure 2-A Filcoten T1510N**

This line refers to the open water level, which will start lowering after 1/3 of the run towards the outlet.



**Figure 1-B Typical Sloped Trench Drain from Others**



**Figure 2-B Filcoten T1520N**

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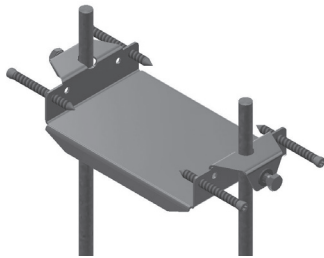
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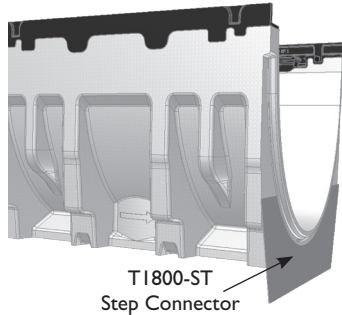


## Accessories

### Installation Device



Optional Installation Device



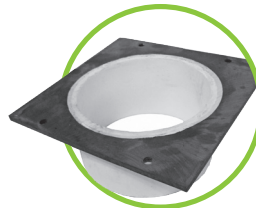
T1800-ST  
Step Connector



FILCOTEN HPC catch basin (the sediment bucket is always included.)



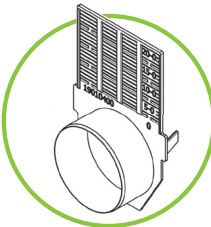
Front / End cap for  
T1500, T1700 and T1800



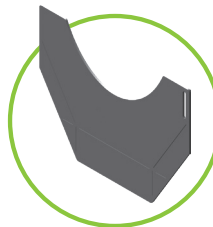
Prefabricated no hub  
bottom outlet



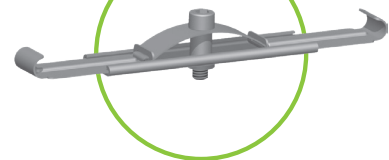
Plastic Sediment bucket for catch basins  
to fit all widths except for T1800 which  
are galvanized steel. Sediment buckets  
are included with every catch basin



Galvanized steel No Hub End  
inlet / outlet for the T1700 and  
T1800. Plastic for the T1500.



Step connector for connecting  
T1500, T1700 and T1800  
bodies with different heights



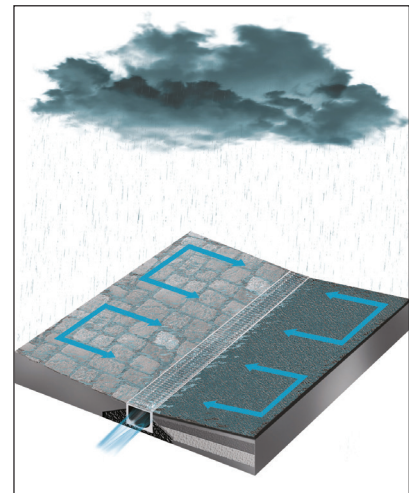
Anti-vandalism locking device for  
all grates (except perforated), ADA  
compliant. 2 pieces needed per meter.

## TYPICAL TRENCH DRAIN SIZING CONSIDERATIONS

**In order to size a trench drain system (length and width), the following information is required:**

1. Length of trench drain run (feet or meters)
2. Length and width of the surface area draining into the trench drain (feet or meters)
3. Surface area type - concrete, pavement, asphalt, etc.
4. Rainfall intensity (in/hr or mm/hr) of the area where the trench drain will be installed.
5. Slope of the ground along the trench drain (%)
6. Perpendicular approach slopes to the trench drain (%)
7. Location of and number of outlets along the trench drain run

Please contact MIFAB's Engineering Department at [sales@mifab.com](mailto:sales@mifab.com)  
for help to design your next trench drain project.



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## PROJECT REFERENCES



### SQUARE, T1500

**Application:** Plaza

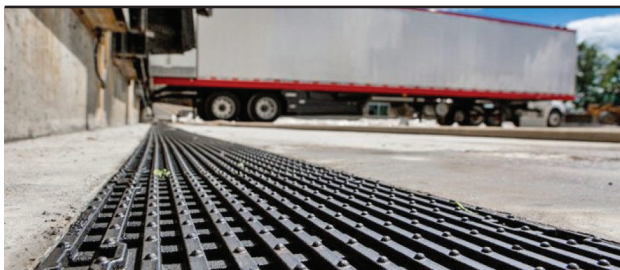
**Product:** T1500 (6") with Stainless Steel Pave Slot Top



### SQUARE, T1500

**Application:** Plaza

**Product:** T1500 (6") with Stainless Steel Pave Slot Top

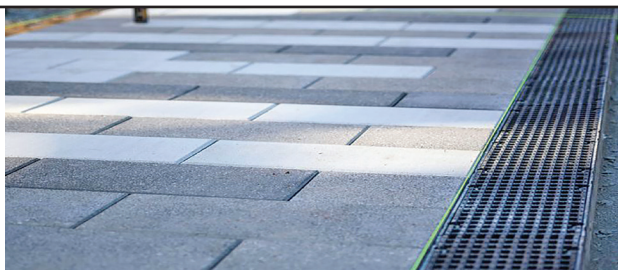


### LOADING AREA AT VEGPRO FARM – T1800

**Application:** Loading area at VegPro Farm

**Location:** Sherrington, Quebec, CANADA

**Product:** T1800 (12") with cl. E600 Ductile iron longitudinal bar grating



### MULTIFUNCTIONAL PLAZA, ARGYLE STREET - T1700

**Application:** Multifunctional Plaza, Argyle street

**Location:** Halifax, NS, CANADA

**Product:** T1700 (8") with cl. E600 Ductile iron longitudinal bar grating



### CAR DEALERSHIP, T1500

**Application:** Car dealership

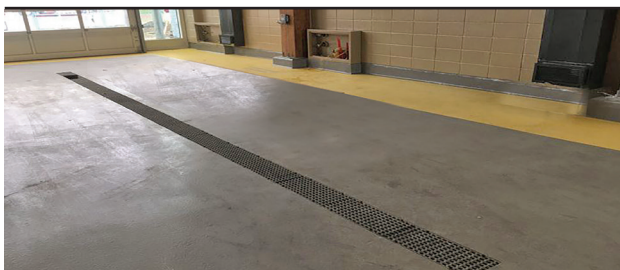
**Product:** T1500 (6") with cl. D400 Ductile iron longitudinal bar grating



### MULTISTORY PARKING, T1560

**Application:** Multi story parking

**Product:** T1560 (4") with cl. D400 Ductile iron longitudinal bar grating



### FIRE STATION - T1700

**Application:** Fire Station

**Location:** Longueuil, QC, CANADA

**Product:** T1700 (8") with cl. E600 Ductile iron longitudinal bar grating



### TOYOTA DEALERSHIP – UNIONTOWN, PA – T1500

**Application:** Toyota dealership

**Location:** Uniontown, PA, USA

**Product:** T1500 with cl. E600 Ductile iron slotted grating

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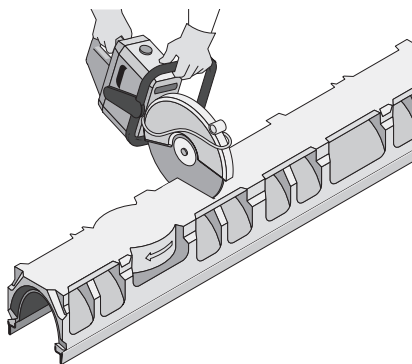
## Installation Guidelines

### ON-SITE FABRICATIONS

When cutting channels and/or grates, gloves, protective eye wear and respirator or mask should be worn.

Cutting channels is required to form miters, T-junctions and non-standard lengths. Most fabrications can be completed on site.

Channels can be cut with a masonry or diamond disc saw. Gratings should be cut with a band saw, or similar, with suitable metal cutting blade.

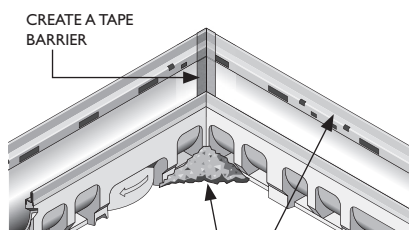


A standard construction glue can be used to bond cut surfaces together.

Simple apply adhesive to both cut ends and push fit together, then allow to dry. Remove any extra adhesive from inside the channel surface before it hardens.

If corrosive liquids are transported in the trench, the joints should be properly sealed.

Ensure the sealant/adhesive used is chemically resistant.

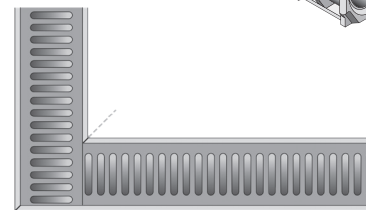
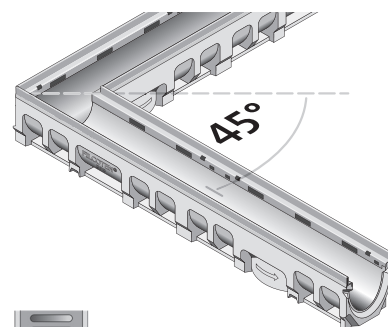


CREATE A TAPE BARRIER

CREATE A DRY CONCRETE PATTY ON ALL SIDES OF THE MITER IN ORDER TO SUPPORT THE CHANNEL DURING THE FINAL POUR

#### Miters

Metered joints are formed by cutting channels to the required angle and butting together. For 90° angle, miter cuts of 45° are required.



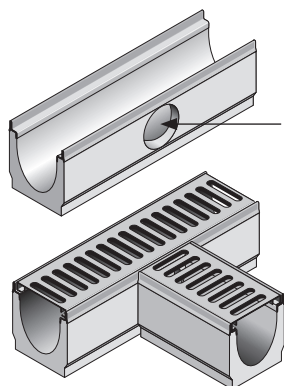
CHANNELS ARE MITRED ONLY, NOT THE GRATES

#### T-junctions

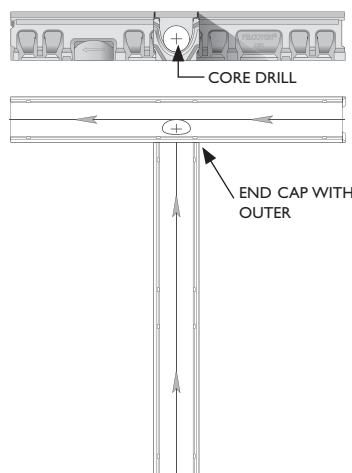
T-junctions are formed when an opening is cut into the side of one channel and another channel is butted up to this opening.

On full meter channel, mark the area in the channel wall to be removed by butting the channels together and by marking the interior's profile of the channel.

**The edge rail should be left intact to provide additional strength and seating for grate.**



CORE DRILL ON SIDE CHANNEL



CORE DRILL

END CAP WITH OUTER

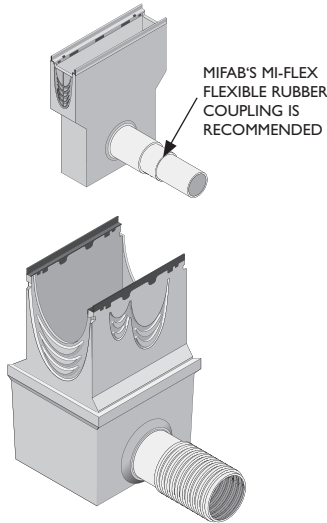
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### CATCH BASIN CONNECTIONS

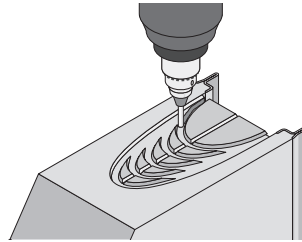
**NOTE: THE 12" AND 8" CATCH BASIN REQUIRE A PIPE ADAPTER 8" IF CAST IRON SOIL PIPE OR PVC IS USED.**

1. Insert the pipe adapter as shown
2. Connect the discharge piping to the catch basin adapter using a no hub coupling or corrugated pipe.



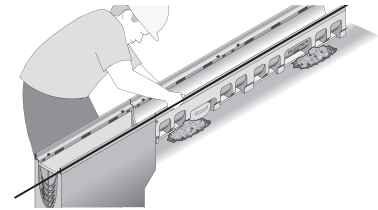
#### Catch Basin Cut-out

- Identify and mark the area to be removed
- Use a stitch drill to cut the opening for the required height channel connection. (Bracing may be necessary).



Use a grinder to dress or enlarge corners for proper fitting.

3. Insert the channel into the socket and seal using an appropriate sealant/adhesive.



\* Please ensure installation as per direction of the arrows.

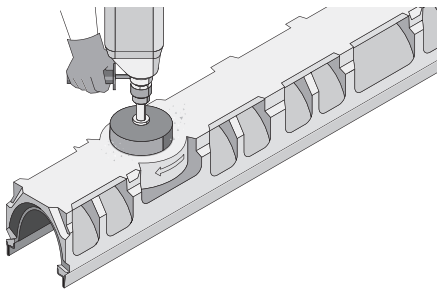
If corrosive liquids are transported in the trench, ensure the sealant or adhesive is chemically resistant.

### PIPE CONNECTIONS

**ATTENTION: USE PROTECTIVE GLASSES AND RESPIRATORY PROTECTION WHEN CUTTING AND DRILLING BG-FILCOTEN CHANNELS.**

#### Removal of cut-out, or cut hole:

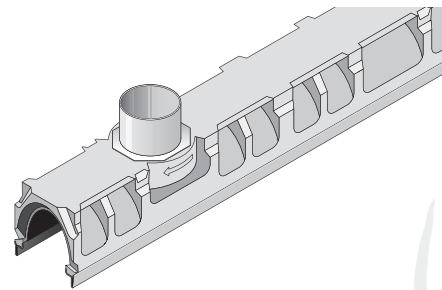
1. Identify and mark the area to be removed.
2. Remove the drill-out. Use a stitch drill or hole saw to cut the opening for the required height channel connection. (Bracing may be necessary).



#### Core Drill

Using the correct diamond core drill size, remove the channel/catch basin wall/base to fit the pipe.

- Turn the channel upside down.
- Make the required penetration by either core drilling or stitch drilling the needed opening.
- A grinder may be used to dress or enlarge the hole for proper pipe or channel insertion.
- The no-hub bottom outlet is then attached directly to the channel bottom using the appropriate sealant or adhesive.



When affixing pipe to the bottom of the channel, ensure that appropriate sealant / adhesive is used.

**CAUTION: DO NOT HAMMER DIRECTLY ON MATERIAL TO MAKE PENETRATION. THIS MAY CAUSE SEVERE CRACKING OF THE MATERIAL SURROUNDING THE HOLE.**

**ALWAYS PREDRILL WITH CORE DRILL.**

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## Grate Load Class Definitions

There are two main grate definitions in the trench drain industry to help specifiers select the appropriate grate: ANSI A112.21.1M and DIN 19580 Standards.

ANSI A112.21.1M		
Grates shall be designed to meet the following loading classifications in a static condition.		
	<b>Light Duty</b>	All grates having safe live load (as calculated in paragraph 6.1.6 of the ANSI Standard) under 2,000 lbs. (900 kg.) For pedestrian foot traffic only.
	<b>Medium Duty</b>	All grates having safe live load (as calculated in paragraph 6.1.6 of the ANSI Standard) between 2,000 lbs. (900 kg.) and 4,999 lbs. (2,250 kg.) For light pneumatic tire traffic only. Sidewalks and residential parking.
	<b>Heavy Duty</b>	All grates having safe live load (as calculated in paragraph 6.1.6 of the ANSI Standard) between 5,000 lbs. (2,250 kg.) and 7,499 lbs. (3,375 kg.) For Commercial Pneumatic tire traffic patterns and tractor trailers.
	<b>Extra Heavy Duty</b>	All grates having safe live load (as calculated in paragraph 6.1.6 of the ANSI Standard) between 7,500 lbs. (3,375 kg.) and 10,000 lbs. (4,500 kg.) For forklift traffic. Roads and Highways. H-20 Load Rated.
	<b>Special Duty</b>	All grates having safe live load (as calculated in paragraph 6.1.6 of the ANSI Standard) over 10,000 lbs. (4,500 kg.) For airport traffic.

DIN 19580/ EN1433		
Grates shall be designed to meet the following loading classifications in a static condition.		
	<b>Load Class A</b>	Light Duty Grate design load up to or exceeding 3,372 lbs per foot. (15 kn). For pedestrian foot traffic only.
	<b>Load Class B</b>	Medium Duty Grate design load of at least 28,100 lbs per foot. (125 kn). For light pneumatic tire traffic only. Sidewalks and residential parking.
	<b>Load Class C</b>	Heavy Duty Grate design load of at least 56,200 lbs per foot. (250 kn). Commercial Applications.
	<b>Load Class D</b>	Grate design load of at least 89,920 lbs per foot. (400 kn). For pneumatic forklift traffic. Extra Heavy Duty. Roads and Highways. H-20 Load Rated.
	<b>Load Class E</b>	Grate design load of at least 134,800 lbs per foot. (600 kn). For Commercial Solid tire traffic patterns, and impacts from steel struts or metal wheels (forklifts). Extreme Heavy Duty.
	<b>Load Class F</b>	Grate design load of at least 202,320 lbs per foot. (900 kn). For airport traffic.

## TRANSPORTATION CLASSIFICATIONS

The American Association of State Highway and Transportation Officials' (AASHTO) "Standard Specification for Highway Bridges" defines H-20 loading as a two-axle truck with a maximum dual-wheel load of 16,000 lbs. HS-20 loading is defined as a tractor truck with a tandem axle semi-trailer with a dual-wheel load of 16,000 lbs.

The FAA (Federal Aviation Administration) Advisory Circular AC 150/5320-6D describes aircraft loading as 100,000 lbs. placed over a 9" x 9" area. The Americans with Disabilities Act (ADA) stipulates that the slot width be limited on gratings in walkways and elongated slots must be placed longitudinally so that they are perpendicular to the dominant direction of travel.

Heel Proof is defined as slots or perforations that are less than ¼" in width or diameter.

The maximum safe live load is calculated by dividing the load at failure by two.

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## CROSS REFERENCE

ACO / Jay R. Smith		MIFAB	ACO / Jay R. Smith		MIFAB
H100/9832-100	0.5% sloped shallow bodies, 4" internal width with integral galvanized steel rail	T1560	441/9835	Galvanized steel slot drain grating, one meter long, Load Class C	T1500-PG-SL
HS100	0.5% sloped shallow bodies, 4" internal width with integral stainless steel rail	T1560-3	442/ 9835-5	Galvanized steel slot drain grating, half meter long, Load Class C	T1500-PG-SL-500
K100/9895	0.5% sloped bodies, 4" internal width with integral galvanized steel rail	T1500	443 138045 Class C	Stainless steel slot drain grating, one meter long, Load Class C	T1500-PG-SSL
KS100/9660-CLG	0.5% sloped bodies, 4" internal width with integral stainless steel rail	T1500-3	444 138046 Class C	Stainless steel slot drain grating, half meter long, Load Class C	T1500-PG-SSL-500
420D 12610 Class A JRS 9870-420-G	Galvanized steel slotted grating, one meter long, Load Class C	T1500-PG-FSC	476D 142171 Class C	Ductile iron bar grating, half meter long, Load Class D	T1500-PG-4-ADA
421D 12611 Class A JRS 9870-420-G0.5	Galvanized steel slotted grating, half meter long, Load Class C	T1500-PG-FSC-500	478Q 03314 Class E JRS 9870-478-ADA	Ductile iron bar grating, half meter long, Load Class E, 4-times bolted longitudinal slotted	T1500-PG-4-L4P
410D 12666 Class A JRS 9870-410-GP	Galvanized steel perforated grating, one meter long, Load Class C	T1500-PG-FPC	461Q JRS 9870-461-M	Ductile iron bar slotted grating, half meter long, Load Class E, 4-times bolted	T1500-PG-4-4P
412D 12667 Class A JRS 9870-410-GP0.5	Galvanized steel perforated grating, half meter long, Load Class C	T1500-PG-FPC-500	96082	Ductile iron bar slotted grating, half meter long, Load Class F, 4-times bolted	T1500-PG-4-4PF
450D 12640 Class A JRS 9870-450-SS	Stainless steel slotted grating, one meter long, Load Class C	T1500-PG-FSSC	K200/9896-G	0.5% sloped bodies, 8" internal width with integral galvanized steel rail	T1700
452D 12641 Class A JRS 9870- 450-SS0.5G	Stainless steel slotted grating, half meter long, Load Class C	T1500-PG-FSSC-500	KS200/9896-SS	0.5% sloped bodies, 8" internal width with integral stainless steel rail	T1700-3
451D 12664 Class A JRS 9870-451-SSPA	Stainless steel perforated grating, one meter long, Load Class C	T1500-PG-FSPC	660D 142177 Class C	Ductile iron slotted grating, half meter long, Load Class C	T1700-PG-4
453D 12665 Class A JRS 9870-451-SSPA0.5	Stainless steel perforated grating, half meter long, Load Class C	T1500-PG-FSPC-500	611D 138080 Class C JRS 9880-611-GPHD	Galvanized steel perforated grating, one meter long, Load Class C	T1700-PG-FPC
425D 12614 Class C JRS 9870- 425-GHD	Galvanized steel slotted grating, one meter long, Load Class C	T1500-PG-FSC	613D 138081 Class C JRS 9880-613-GPHD	Galvanized steel perforated grating, half meter long, Load Class C	T1700-PG-FPC-500
426D 12615 Class C JRS 9870-425-GHD0.5	Galvanized steel slotted grating, half meter long, Load Class C	T1500-PG-FSC-500	665D 138082 Class C	Stainless steel mesh grating, one meter long, Load Class C	T1700-PG-FSMC
405D 132880 Class C JRS 9870-405-GM	Galvanized steel mesh grating, one meter long, Load Class C	T1500-PG-FMC	666D 138083 Class C 9880-666-SSP	Stainless steel mesh grating, half meter long, Load Class C	T1700-PG-FSMC-500
406D 132881 Class C JRS 9870-405-GM0.5	Galvanized steel mesh grating, half meter long, Load Class C	T1500-PG-FMC-500	678Q 138129 Class E JRS 9880-678-MADA	Ductile iron bar grating, half meter long, Load Class E, 4-times bolted	T1700-PG-4-B
411D 12656 Class C JRS 9870-411-GPAD	Galvanized steel perforated grating, one meter long, Load Class C	T1500-PG-FPC	661Q 10351 Class E JRS 9880-661-M	Ductile iron slotted grating, half meter long, Load Class C	T1700-PG-4
413D 12657 Class C JRS 9870-411-GPAD0.5	Galvanized steel perforated grating, half meter long, Load Class C	T1500-PG-FPC-500	2449	Ductile iron slotted grating, half meter long, Load Class F, 4-times bolted	T1700-PG-4-4P
455D 12644 Class C JRS 9870-455-SSHD	Stainless steel slotted grating, one meter long, Load Class C	T1500-PG-FSSC	S300K	Stepped sloped bodies, 12" internal width with integral galvanized steel rail	T1800
457D 12645 Class C JRS 9870-455-SSHD0.5	Stainless steel slotted grating, half meter long, Load Class C	T1500-PG-FSSC-500	K300/9897	Stepped sloped bodies, 12" internal width with integral galvanized steel rail	T1800
430D 132882 Class C JRS 9870-430-SSM	Stainless steel mesh grating, one meter long, Load Class C	T1500-PG-FSMC	KS300/9897-SS	Stepped sloped bodies, 12" internal width with integral stainless steel rail	T1800-3
431D 132883 Class C JRS 9870-430-SSM0.5	Stainless steel mesh grating, half meter long, Load Class C	T1500-PG-FSMC-500	805D 13819 Class C JRS 9890-805-GM	Galvanized steel mesh grating, half meter long, Load Class C	T1800-PG-FMC
465D 12654 Class C JRS 9870-465-SSP	Stainless steel perforated grating, one meter long, Load Class C	T1500-PG-FSPC			
466D 12655 Class C JRS 9870-465-SSP0.5	Stainless steel perforated grating, half meter long, Load Class C	T1500-PG-FSPC-500			
494D 99575 Class A JRS 9870-494-PADAB	COMBee composite grating (plastic) half meter long, Load Class C with fix-locking-system	T1500-PG-PGC			

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**COMPLETE MIFAB® BINDER**  
(with all product booklets inside)  
Lit # 001B



**MPB-2019-USA**  
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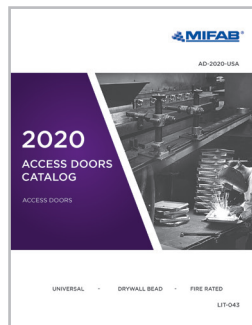
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**INT-2020**  
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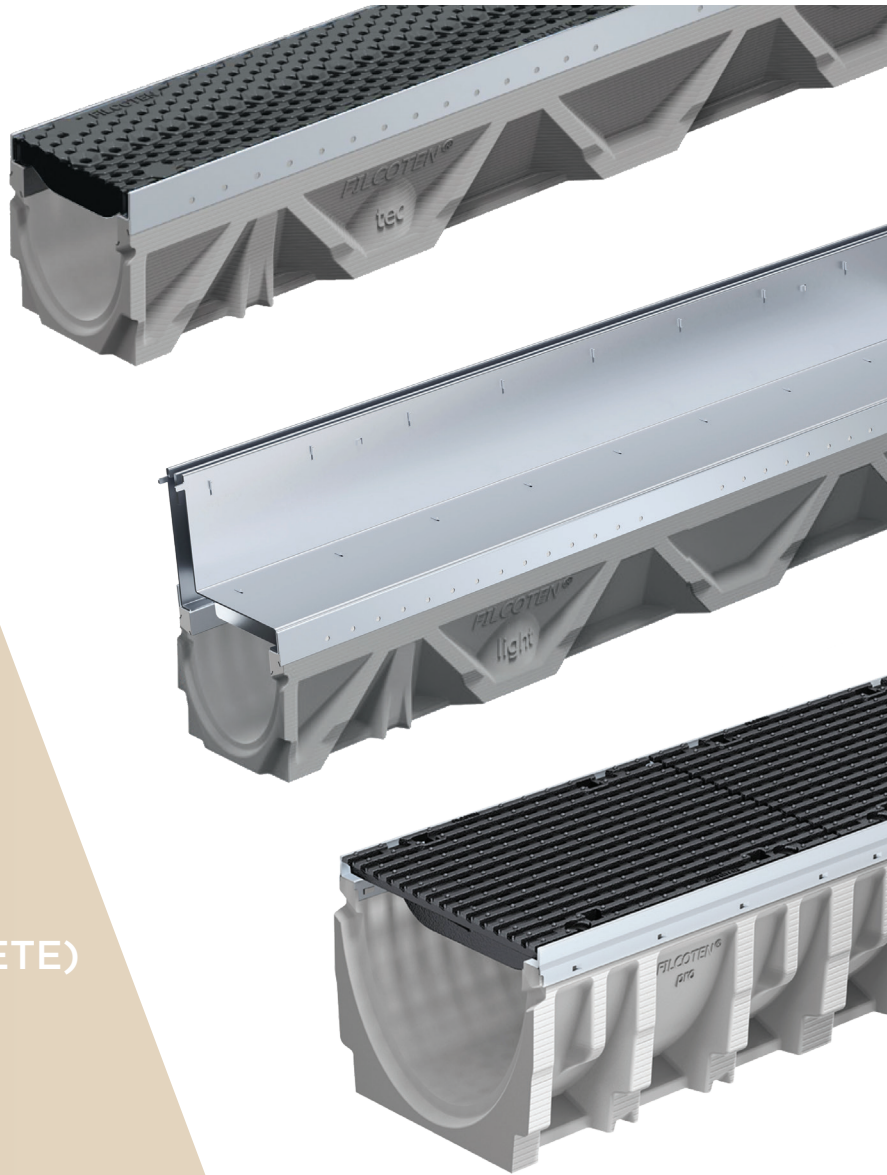
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BG-FILCOTEN-2020

# 2020

## BG-FILCOTEN TRENCH DRAINS CATALOG

FILCOTEN HPC  
(HIGH PERFORMANCE CONCRETE)  
TRENCH DRAINS



4", 8", 12" INTERNAL WIDTHS - SHALLOW BODY - CATCH BASINS  
(6", 10" and 14" OVERALL WIDTHS)

LIT-076