

FILCOTEN[®] BY  NDS[®]
We put water in its place

Fiber-Reinforced Trench Drains for All Applications



ndspro.com



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A heavyweight when it comes to features.

FILCOTEN® by NDS® combines smart engineering and smart materials to provide a superior trench drain suitable for handling a high load capacity. Combining the features of a stable concrete channel with the strength, durability and environmental-friendliness of fiber-reinforced concrete, FILCOTEN® by NDS® is the ideal choice for a wide variety of sites and applications.

Applications. Because FILCOTEN® by NDS® can handle a high load capacity, it is especially suitable for installation in industrial areas such as factories, garages and parking lots. With its sleek design it can easily be used in public places like railway stations, and pedestrian or residential areas.

Vertical outlet on every channel.

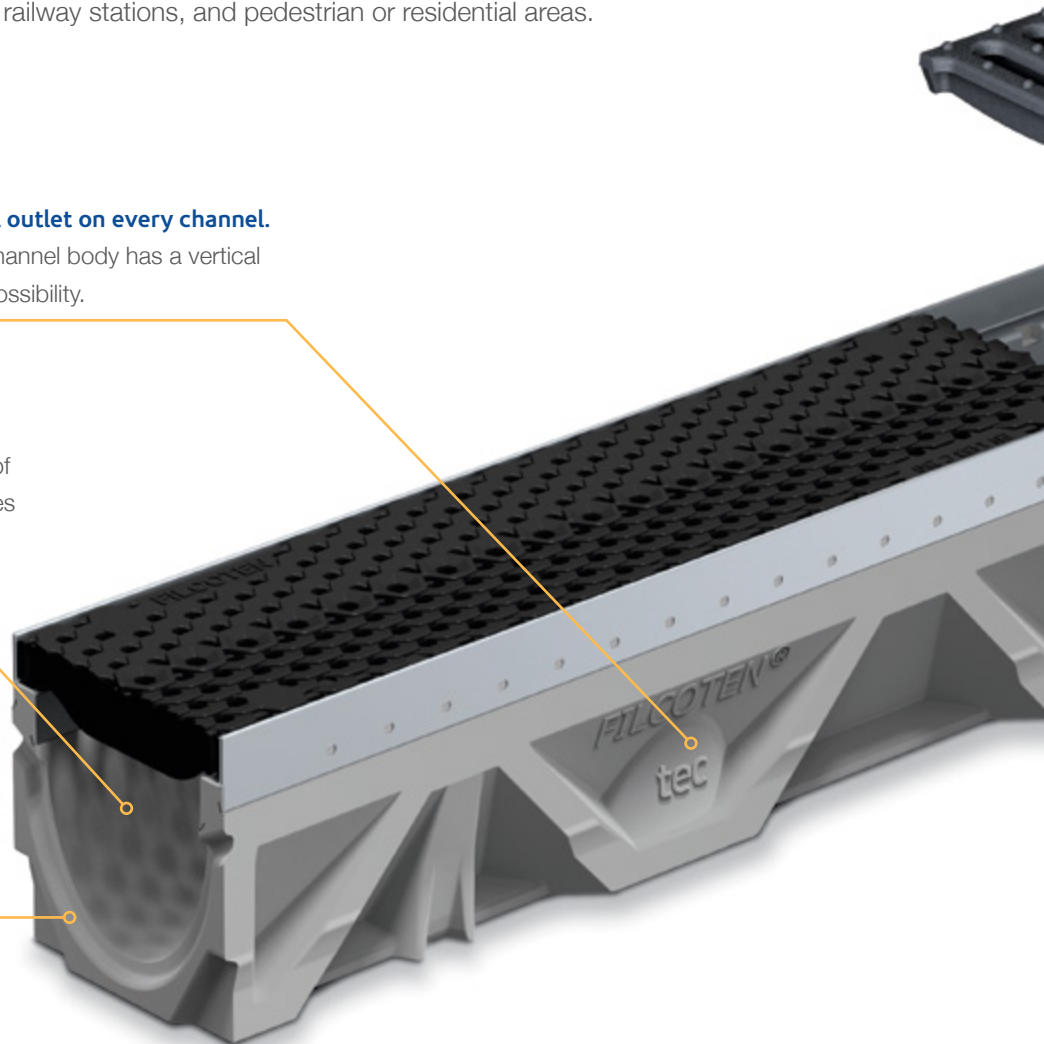
Every channel body has a vertical outlet possibility.

Engineered channel interior.

The particularly smooth inner surface of FILCOTEN® by NDS® channels achieves the best possible flow characteristics and self-cleaning effect.

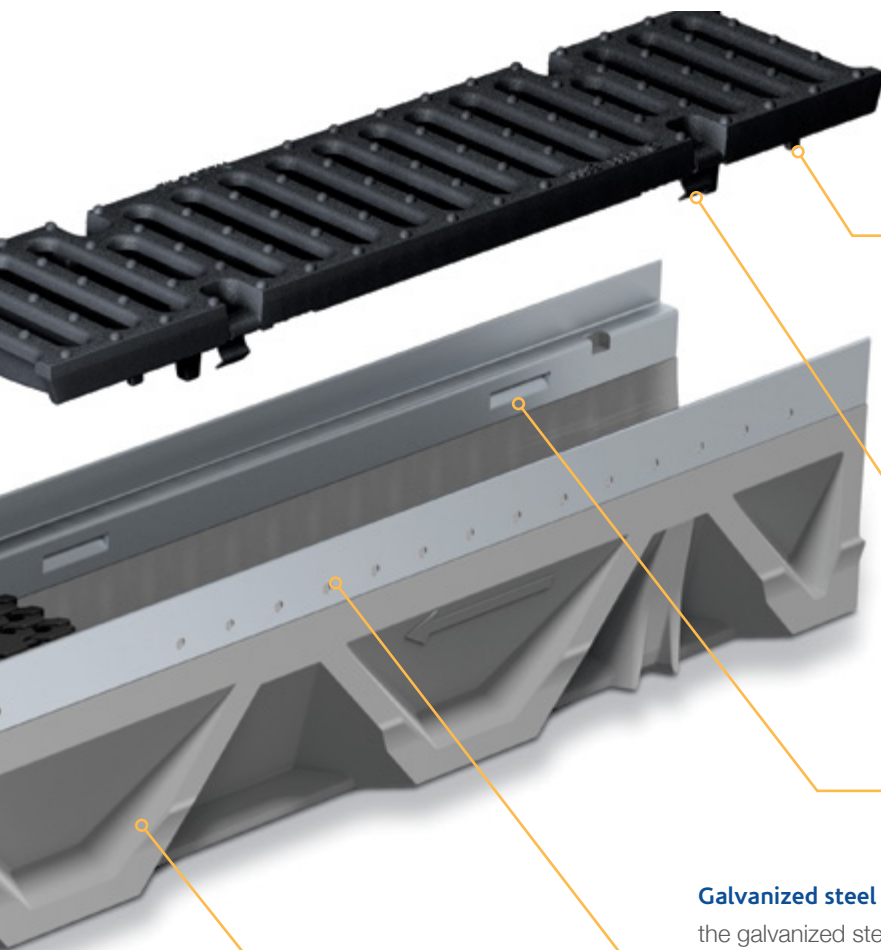
Sealant groove.

Sealant groove for waterproof installation.



FILCOTEN® Trench Drain

- **Temperature, frost and UV resistant.** Less contraction and expansion and longer product life.
- **Product impact stability.** Less susceptible to cracking and breaking during transport and installation.
- **100% recyclable / 0% harmful substances.** Sustainable solution without VOCs or heavy-metal residue that can leach into the ground. Qualifies for LEED credits.
- **Non-flammable.** Manufactured without resins, FILCOTEN® is rated A1, non-combustible.
- **Monolithic adhesion.** Free from de-molding agents, FILCOTEN® bonds securely with the surrounding concrete.



Engineered for stability.

Four anti-sliding lugs secure the grate against any longitudinal shifting and provides additional safety.

Fast and secure fix-connection snap-on-anchoring system.

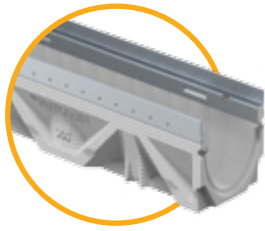
The intelligent fix-connection uses an amazingly simple four-point, quick-release, integral design to securely hold the grate in place.

Designed with security in mind. Anti-vandal locking devices are available to ensure grates are only removed by authorized personnel. Four locking devices per channel section are recommended.

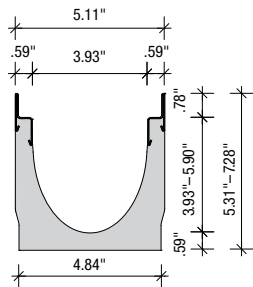
Galvanized steel rails. The special design of the galvanized steel rails allows for secure grate locking with the fix-connection self-locking system.

Engineered channel exterior. The anchoring ribs have been specially designed to support the channel and increase the exposed surface area, providing far better adhesion to the surrounding concrete.

FILCOTEN® Tec 100



FILCOTEN Tec 100

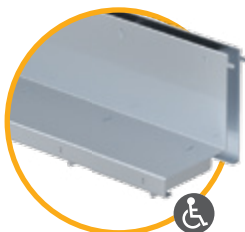
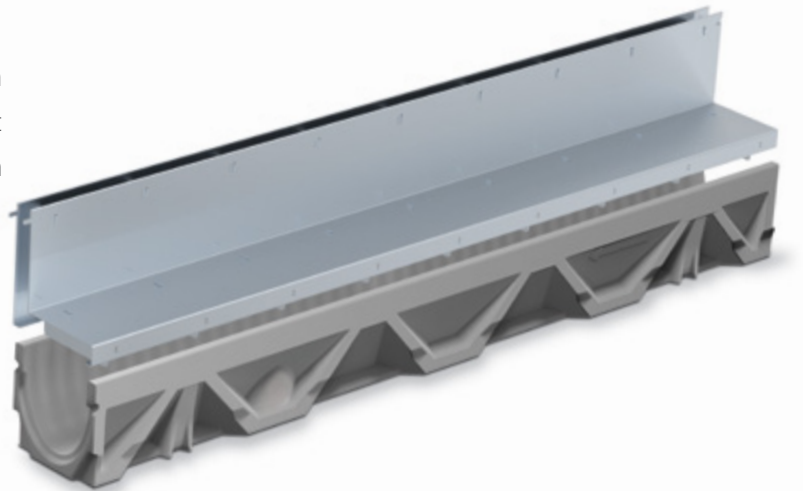


FILCOTEN® Tec V 100 Trench Drain

4"/100mm wide channel body with galvanized rail, pre-sloped and neutral sections

Item No.	Product Name	Slope	Length (in.)	Height at Channel End (in.)	Weight (lb.)
10410200	FILCOTEN Tec V 100 Channel 0 with Galvanized Rail - Neutral	0%	39.37	5.31	28.66
10410201	FILCOTEN Tec V 100 Channel 1 with Galvanized Rail	0.5%	39.37	5.31-5.51	29.54
10410202	FILCOTEN Tec V 100 Channel 2 with Galvanized Rail	0.5%	39.37	5.51-5.71	31.08
10410203	FILCOTEN Tec V 100 Channel 3 with Galvanized Rail	0.5%	39.37	5.71-5.91	32.63
10410204	FILCOTEN Tec V 100 Channel 4 with Galvanized Rail	0.5%	39.37	5.91-6.10	33.95
10410205	FILCOTEN Tec V 100 Channel 5 with Galvanized Rail	0.5%	39.37	6.10-6.30	35.05
10410261	FILCOTEN Tec V 100 Channel 5-0 with Galvanized Rail - Neutral	0%	39.37	6.30	35.49
10410206	FILCOTEN Tec V 100 Channel 6 with Galvanized Rail	0.5%	39.37	6.30-6.50	36.16
10410207	FILCOTEN Tec V 100 Channel 7 with Galvanized Rail	0.5%	39.37	6.50-6.69	37.04
10410208	FILCOTEN Tec V 100 Channel 8 with Galvanized Rail	0.5%	39.37	6.69-6.89	38.36
10410209	FILCOTEN Tec V 100 Channel 9 with Galvanized Rail	0.5%	39.37	6.89-7.09	39.68
10410210	FILCOTEN Tec V 100 Channel 10 with Galvanized Rail	0.5%	39.37	7.09-7.28	40.79
10410262	FILCOTEN Tec V 100 Channel 10-0 with Galvanized Rail - Neutral	0%	39.37	7.28	41.23

FILCOTEN® by NDS® slot top. When the design is as important as the function, FILCOTEN® slot top grates are the first choice. With a slot width of 0.5", it blends in with any design aesthetic. The high load rating, and sleek maintenance unit make this grate option versatile enough to be used in many applications.

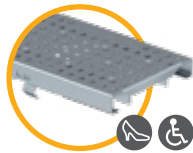


17110243

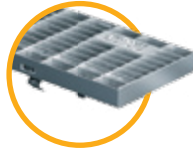
FILCOTEN® Tec V 100 Slot Top Grates

Item No.	Product Name	Dimensions L x W x H (in.)	Load class per EN1433	Max Design Load (lb.)	Slot/mesh width	Weight (lb.)	Intake Area (sq. in./ft.)	Intake Area (cm ² /m)
17110243	FILCOTEN 100 Galvanized Steel Asymmetrical Slot Top Grate Class C - 1m	39.37/4.84/5.24	Class C	56,200	0.5" (12.5mm)	11.90	5.91	125
17110244	FILCOTEN 100 Galvanized Steel Asymmetrical Slot Top Grate Class C - 1/2m	19.69/4.84/5.24	Class C	56,200	0.5" (12.5mm)	5.95	5.91	125
17110281	FILCOTEN 100 Galvanized Steel Maintenance Unit for Slot Top Grate Class C	19.69/4.84/5.20	Class C	56,200	0.5" (12.5mm)	11.02	5.91	125

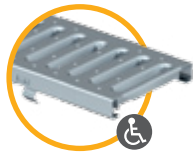
FILCOTEN® Tec 100



17010204, 17010205,
17010228, 17010229



17010220 & 17010221



17010202, 17010203,
17010206, 17010207



17010402



17010106 (heelproof),
17010110 (not heelproof)



17010105

FILCOTEN® Tec V 100 Grates

with fix-connection self-locking system

Item No.	Product Name	Dimensions L / W / H (in.) / (mm)	Load class per EN1433	Max. Design Load (lb.)	Slot/mesh width	Weight (lb.)	Weight (kg.)	Intake Area (in. ² /ft.)	Intake Area (cm ² /m)	Flow Rate Through Grate* (GPM)
17010202	FILCOTEN 100 Galvanized Steel Slotted Grate Class A - 1m	39.37"/4.80"/0.78" 1000/122/20	Class A	3,374	0.31" x 3.15" (8 x 80mm)	3.31	1.5	12.04	225	106.837
17010203	FILCOTEN 100 Galvanized Steel Slotted Grate Class A - 1/2m	19.69"/4.80"/0.78" 500/122/20	Class A	3,374	0.31" x 3.15" (8 x 80mm)	1.76	0.8	12.04	255	106.837
17010204	FILCOTEN 100 Galvanized Steel Perforated Grate Class A - 1m	39.37"/4.80"/0.78" 1000/122/20	Class A	3,374	0.24" hole (6.5mm)	4.19	1.9	8.03	170	80.7217
17010205	FILCOTEN 100 Galvanized Steel Perforated Grate Class A - 1/2m	19.69"/4.80"/0.78" 500/122/20	Class A	3,374	0.24" hole (6.5mm)	2.2	1.0	8.03	170	80.7217
17010220	FILCOTEN 100 Galvanized Steel Mesh Grate Class B - 1m	39.37"/4.80"/0.78" 1000/122/20	Class B	28,100	1.18" x 3.15" (30 x 80mm)	6.17	2.8	46.29	980	450.987
17010221	FILCOTEN 100 Galvanized Steel Mesh Grate Class B - 1/2m	19.69"/4.80"/0.78" 500/122/20	Class B	28,100	1.18" x 3.15" (30 x 80mm)	3.09	1.4	44.88	950	450.987
17010206	FILCOTEN 100 Galvanized Steel Slotted Grate Class C - 1m	39.37"/4.80"/0.78" 1000/122/20	Class C	56,200	0.31" x 3.15" (8 x 80mm)	9.92	4.5	12.99	275	130.579
17010207	FILCOTEN 100 Galvanized Steel Slotted Grate Class C - 1/2m	19.69"/4.80"/0.78" 500/122/20	Class C	56,200	0.31" x 3.15" (8 x 80mm)	4.85	2.2	12.99	275	130.579
17010228	FILCOTEN 100 Galvanized Steel Perforated Grate Class C - 1m	39.37"/4.80"/0.78" 1000/122/20	Class C	56,200	0.24" hole (6.5mm)	7.28	3.3	8.03	170	80.7217
17010229	FILCOTEN 100 Galvanized Steel Perforated Grate Class C - 1/2m	19.69"/4.80"/0.78" 500/122/20	Class C	56,200	0.24" hole (6.5mm)	3.75	1.7	8.03	170	80.7217
17010402	FILCOTEN 100 Plastic Honeycomb Grate Class C - 1/2m	19.69"/4.80"/0.78" 500/122/20	Class C	56,200	0.31" hole (8.0mm)	2.43	1.1	13.70	290	137.702
17010106	FILCOTEN 100 Ductile Iron Longitudinal Bar Grate Class C - 1/2m	19.69"/4.80"/0.78" 500/122/20	Class C	56,200	0.24" x 1.14" (6 x 29mm)	7.94	3.6	15.12	320	151.947
17010110	FILCOTEN 100 Ductile Iron Reinforced Longitudinal Bar Grate Class D - 1/2m	19.69"/4.80"/0.78" 500/122/20	Class D	89,920	0.35" x 1.14" 9 x 29mm)	7.50	3.2	25.98	550	225.546
17010105	FILCOTEN 100 Ductile Iron Slotted Class E - 1/2m	19.69"/4.80"/0.78" 500/122/20	Class E	134,800	0.55" x 3.94" (14 x 100mm)	8.37	3.8	21.54	456	220.788

*Calculated using simple orifice equation with 1/2 inch head

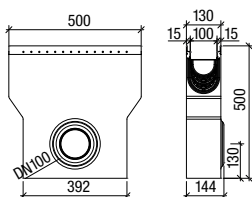
FILCOTEN® Tec V 100 Accessories

Item No.	Product Name	Material	Weight (lb.)
10410291	FILCOTEN Tec 100 Sump	High-Performance Fiber-Reinforced Concrete	52.91
22515	FILCOTEN 100 Silt Bucket	Plastic	0.44
32087	FILCOTEN 100 Anti-Vandalism Locking Device	Stainless Steel	0.22
19010231	FILCOTEN 100 End Cap with 4 in. Outlet	Galvanized Steel	0.66
19010915	FILCOTEN 100 Rebar Support	Galvanized Steel	2.65
19011204	FILCOTEN 100 Bottom Outlet	Galvanized Steel	0.66
19010230	FILCOTEN 100 Closed End Cap	Galvanized Steel	0.66

NOTE: Will accept 4" pipe



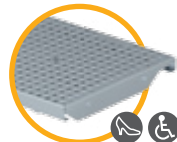
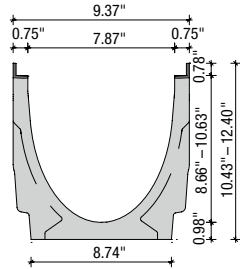
FILCOTEN Tec
Sump Unit 100



FILCOTEN® Pro 200



FILCOTEN Pro 200
Galvanized Steel



17020228 & 17020229



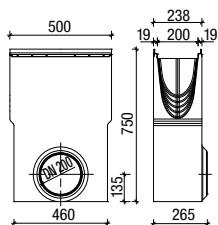
17020104



17020105



FILCOTEN® Pro Sump Unit 200



FILCOTEN® Pro V 200 Trench Drain

8"/200mm wide channel body with galvanized rail, pre-sloped and neutral sections

Item No.	Product Name	Slope	Length (in.)	Height at Channel End (in.)	Weight (lb.)
10620200	FILCOTEN Pro V 200 Channel 0 with Galvanized Rail - Neutral	0%	39.37	10.43	97.00
10620201	FILCOTEN Pro V 200 Channel 1 with Galvanized Rail	0.5%	39.37	10.43-10.63	98.11
10620202	FILCOTEN Pro V 200 Channel 2 with Galvanized Rail	0.5%	39.37	10.63-10.83	100.31
10620203	FILCOTEN Pro V 200 Channel 3 with Galvanized Rail	0.5%	39.37	10.83-11.02	102.51
10620204	FILCOTEN Pro V 200 Channel 4 with Galvanized Rail	0.5%	39.37	11.02-11.22	104.72
10620205	FILCOTEN Pro V 200 Channel 5 with Galvanized Rail	0.5%	39.37	11.22-11.42	106.92
10620261	FILCOTEN Pro V 200 Channel 5-0 with Galvanized Rail - Neutral	0%	39.37	11.42	108.30
10620206	FILCOTEN Pro V 200 Channel 6 with Galvanized Rail	0.5%	39.37	11.42-11.61	109.13
10620207	FILCOTEN Pro V 200 Channel 7 with Galvanized Rail	0.5%	39.37	11.61-11.81	111.33
10620208	FILCOTEN Pro V 200 Channel 8 with Galvanized Rail	0.5%	39.37	11.81-12.01	113.54
10620209	FILCOTEN Pro V 200 Channel 9 with Galvanized Rail	0.5%	39.37	12.01-12.20	115.74
10620210	FILCOTEN Pro V 200 Channel 10 with Galvanized Rail	0.5%	39.37	12.20-12.40	117.95
10620262	FILCOTEN Pro V 200 Channel 10-0 with Galvanized Rail - Neutral	0%	39.37	12.40	118.83
10620264	FILCOTEN Pro V 200 Channel 20-0 with Galvanized Rail - Neutral	0%	39.37	14.37	138.23

FILCOTEN® Pro 200 Grates with fix-connection self-locking system

Item No.	Product Name	Dimensions L / W / H (in.) / (mm)	Load class per EN1433	Max. Design Load (lb.)	Slot/mesh width	Weight (lb.)	Weight (kg.)	Intake Area (in. ² /ft.)	Intake Area (cm ² /m)	Flow Rate Through Grate* (GPM)
17020228	FILCOTEN 200 Galvanized Steel Perforated Grate Class C - 1m	39.37"/8.74"/0.78" 1000/222/20	Class C	56,200	1/4" hole	29.76	13.5	8.03	170	80.702
17020229	FILCOTEN 200 Galvanized Steel Perforated Grate Class C - 1/2m	19.69"/8.74"/0.78" 500/222/20	Class C	56,200	1/4" hole	14.77	6.7	8.03	170	80.702
17020104	FILCOTEN 200 Ductile Iron Longitudinal Bar Grate Class D - 1/2m	19.69"/8.74"/0.78" 500/222/20	Class D	89,920	1.14 x 0.51	7.5	3.6	44.41	940	446.24
17020105	FILCOTEN 200 Ductile Iron Slotted Grate Class E - 1/2m	19.69"/8.74"/0.78" 500/222/20	Class E	134,800	7.87"x 0.55" (200 x 14mm)	18.96	8.6	45.59	965	458.108

*Calculated using simple orifice equation with 1/2 inch head

FILCOTEN® Pro 200 Accessories

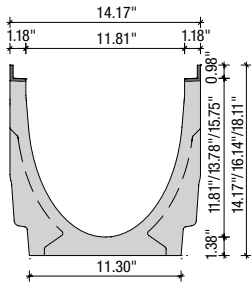
Item No.	Product Name	Material	Weight (lb.)
10620290	FILCOTEN Pro V 200 Sump with Galvanized Rail	High-Performance Fiber-Reinforced Concrete	105.82
22512	FILCOTEN 200 Silt Bucket	Plastic	1.54
32089	FILCOTEN 200 Anti-Vandalism Locking Device	Galvanized Steel	0.22
19020216	FILCOTEN 200 End Cap with 8" Outlet	Galvanized Steel	1.10
19020295	FILCOTEN 200 Step Connector Plate	Galvanized Steel	0.44
19021208	FILCOTEN B let 8" - 12"	Galvanized Steel	2.20
70154	FILCOTEN Catch Basin to 8" Pipe Connector	Plastic	2.40
19020230	FILCOTEN Front / End Cap, No Outlet	Galvanized Steel	1.68

NOTE: Will accept 8" pipe

FILCOTEN® Pro 300



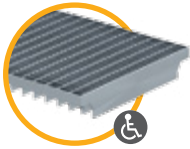
FILCOTEN Pro V 300
Galvanized Steel



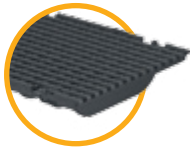
FILCOTEN® Pro V 300 Trench Drain

12"/300mm wide channel body with galvanized rail, pre-sloped and neutral sections

Item No.	Product Name	Slope	Length (in.)	Height at Channel End (in.)	Weight (lb.)
10630200	FILCOTEN Pro V 300 Channel 0 with Galvanized Rail - Neutral	0%	39.37	14.17	166.67
10630201	FILCOTEN Pro V 300 Channel 1 with Galvanized Rail	0.50%	39.37	14.37	168.21
10630202	FILCOTEN Pro V 300 Channel 2 with Galvanized Rail	0.50%	39.37	14.57	171.07
10630203	FILCOTEN Pro V 300 Channel 3 with Galvanized Rail	0.50%	39.37	14.76	173.94
10630204	FILCOTEN Pro V 300 Channel 4 with Galvanized Rail	0.50%	39.37	14.96	176.81
10630205	FILCOTEN Pro V 300 Channel 5 with Galvanized Rail	0.50%	39.37	15.15	179.67
10630261	FILCOTEN Pro V 300 Channel 5-0 with Galvanized Rail - Neutral	0%	39.37	15.15	181.22
10630206	FILCOTEN Pro V 300 Channel 6 with Galvanized Rail	0.50%	39.37	15.35	182.54
10630207	FILCOTEN Pro V 300 Channel 7 with Galvanized Rail	0.50%	39.37	15.55	185.41
10630208	FILCOTEN Pro V 300 Channel 8 with Galvanized Rail	0.50%	39.37	15.74	188.27
10630209	FILCOTEN Pro V 300 Channel 9 with Galvanized Rail	0.50%	39.37	15.94	191.14
10630210	FILCOTEN Pro V 300 Channel 10 with Galvanized Rail	0.50%	39.37	16.14	194.01
10630262	FILCOTEN Pro V 300 Channel 10-0 with Galvanized Rail - Neutral	0%	39.37	16.14	199.08
10630264	FILCOTEN Pro V 300 Channel 20-0 with Galvanized Rail - Neutral	0%	39.37	18.11	244.05



17030222 & 17030223



17030103

FILCOTEN® Pro 300 Grates with fix-connection self-locking system & additional 4-point bolting

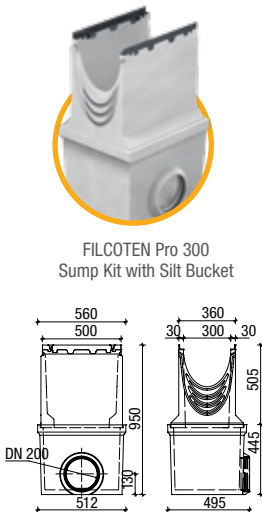
Item No.	Product Name	Dimensions L / W / H (in.) / (mm)	Load class per EN1433	Max. Design Load (lb.)	Slot/mesh width	Intake Area (in. ² /ft.)	Intake Area (cm ² /m)	Flow Rate Through Grate* (GPM)
17030222	FILCOTEN 300 Galvanized Steel Mesh Grate Class C - 1m	39.37"/13.66"/0.98" 1000/347/25	Class C	56,200	1.18" x 0.39" (30 x 10mm)	108.89	2305	1094.24
17030223	FILCOTEN 300 Galvanized Steel Mesh Grate Class C - 1/2m	19.69"/13.66"/0.98" 500/347/25	Class C	56,200	1.18" x 0.39" (30 x 10mm)	108.89	2295	1089.49
17030103	FILCOTEN 300 Ductile Iron Longitudinal Bar Grate Class E - 1/2m	19.69"/13.66"/0.98" 500/347/25	Class E	134,800	1.14" x 0.51" (29 x 13mm)	69.21	1465	695.469

*Calculated using simple orifice equation with 1/2 inch head

FILCOTEN® Pro 300 Accessories

Item No.	Product Name	Material	Weight (lb.)
22213	FILCOTEN Pro 300 Sump Kit with Silt Bucket	Galvanized Steel	7.05
19030213	FILCOTEN 300 Closed End Cap	Galvanized Steel	3.75
19030214	FILCOTEN 300 End Cap with 8" Outlet	Galvanized Steel	3.53
70154	FILCOTEN Catch Basin to 8" Pipe Connector	Plastic	2.43
19060020	FILCOTEN Pro V 300 Catch Basin Extension Unit	High-Performance Fiber-Reinforced Concrete	93.70
19030290	FILCOTEN 300 End Cap Adapter Plate with Connection Cutouts	Galvanized Steel	0.66
19030295	FILCOTEN 300 Step Connector Plate	Galvanized Steel	0.88
10630290	FILCOTEN Pro V 300 Catch Basin with Galvanized Rail	High-Performance Fiber- Reinforced Concrete	273.37
32110	FILCOTEN 300 Bolt and Nut for Locking	Galvanized Steel	0.22

NOTE: Will accept 8" pipe



From NDS®

The Leader in Stormwater Management

Resources:

Load Ratings according to EN1433 Standards:



CLASS A

- Max Design Load: 3,372 lbs.
- Pedestrians
- Bicyclists
- Planted areas



CLASS B

- Max Design Load: 28,100 lbs.
- Pedestrians
- Parking lots
- Delivery vehicles



CLASS C

- Max Design Load: 56,200 lbs.
- Curbs
- Road shoulders
- Parking lots



CLASS D

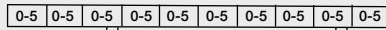
- Max Design Load: 89,920 lbs.
- Roadways
- Pedestrian zones
- Parking lots



CLASS E

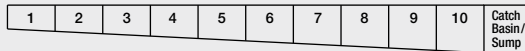
- Max Design Load: 134,800 lbs.
- Industry
- Military
- High wheel loads

Neutral run

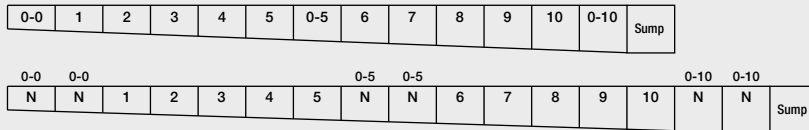


*Any neutral channel can be used in this application.

Linear run without neutrals



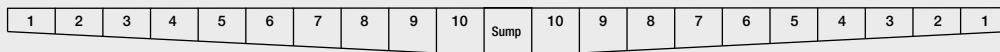
Linear run with neutrals



Step Slope



Counter-directional



Note: Drawings are not to scale. See previous pages for actual product dimensions.

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