



# ZIP TRENCH<sup>®</sup>

6" WIDE 9940 SERIES TRENCH DRAIN SYSTEM

**PRE-ASSEMBLED**

**0-60 FEET IN 6 SECTIONS**

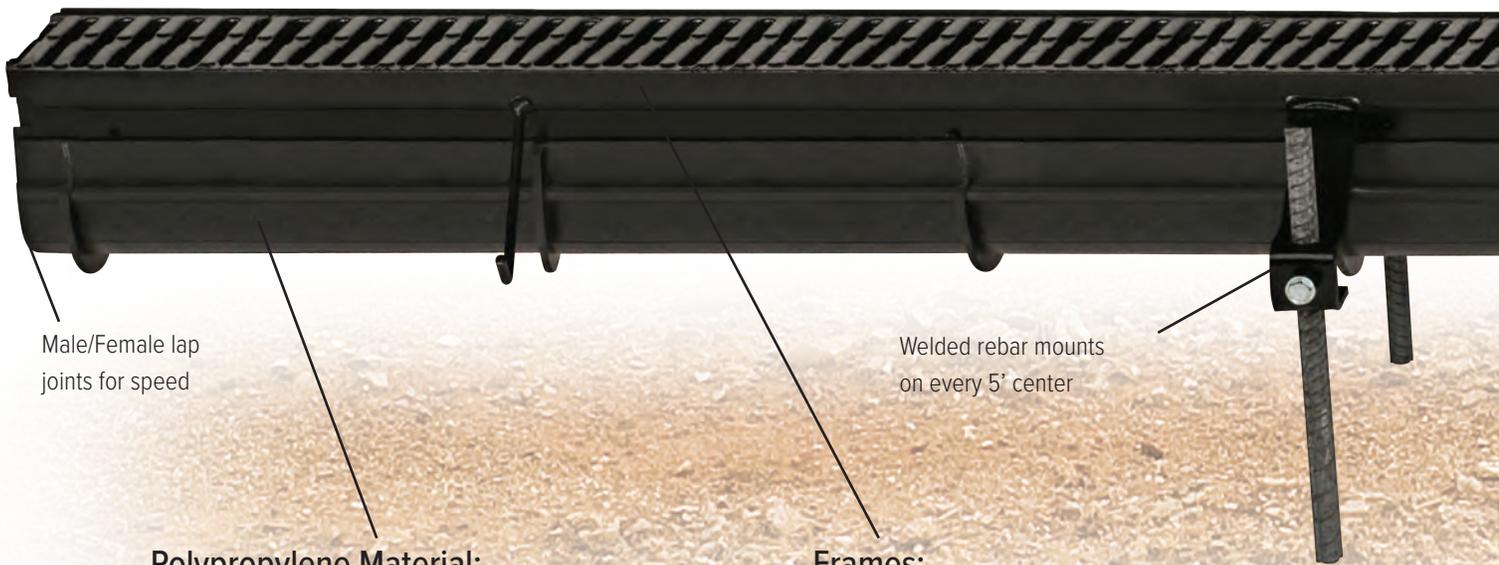


 MORRIS GROUP INTERNATIONAL

[WWW.MORRISGROUPINT.COM](http://WWW.MORRISGROUPINT.COM)

## Zip Trench Features:

- Fast, long, pre-assembled runs **shipped from factory**: 9'-10" (3 meter) long channels
- 16 Channels - 12 sloping channels and 4 neutral channels from a depth of 4.81" to 13.81"  
(Built-in slope of 0.6% and radiused bottom)
- Grate types: Class A - Stainless steel perforated and slotted
  - Galvanized steel perforated and slotted
  - Black polypropylene slotted and ADAClass B - Stainless steel mesh
- Class C - Stainless steel perforated, mesh and slotted
  - Galvanized steel perforated, mesh, slotted and brickslot
  - Ductile iron mosaic and decorative
  - Plastic resin slottedClass E - Stainless steel slotted
  - Galvanized steel slotted
  - Ductile iron slotted and ADA



Male/Female lap joints for speed

Welded rebar mounts on every 5' center

### Polypropylene Material:

- Max temp of 180°F vs. 140°F for polyethylene
- Lighter weight and faster to install than cast-in-place
- Better chemical resistance than polyethylene
- Includes UV inhibitors

### Frames:

- One piece - 9'-10" (3 meters) long
- 11 gauge
- Extra heavy-duty painted steel frame is standard; also available in galvanized or stainless steel
- Channels have features that transfer the traffic load to encasement concrete, including:
  - Extra heavy-duty frames
  - 4 5/8" (1/4" diameter) anchoring lugs (8 per frame) (1/4 meter center)
  - Welded-on rebar mounts

## Other Views:



### Outlets

- Snap on 4" no-hub vertical outlet can be located virtually anywhere on the channel
- End outlets and end caps available. (see back cover)

Anchoring lugs

Heavy polypropylene ribbing throughout to reinforce during concrete pour

### Weight:

- Average weight—channel and frame without grates is 45 lbs.
- Grate weight is listed on pages 4 - 5.

# 6" Grates for 9940 Series

## Load Class C: Heavy Duty

Heavy Duty, EN1433 Class C - 56,000 lbs. 1,162 psi for commercial pneumatic tire traffic patterns, forklifts, and tractor trailers

Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Mesh Stainless Steel	9870-430-SSM	1m	7.8	121.00	C	X	X	✓	41.3	✓	X
	Mesh Stainless Steel	9870-430-SSM	.5m	3.9	58.00	C	X	X	✓	41.3	✓	X
	Slotted Stainless Steel	9870-455-SSHD	1m	8.8	35.20	C	X	X	X	29.9	✓	X
	Slotted Stainless Steel	9870-455-SSHD	.5m	4.4	17.60	C	X	X	X	29.9	✓	X
	Slotted Ductile Iron	9870-461-M	.5m	10.2	34.10	*C	X	X	X	31.1	✓	✓
	Perforated Stainless Steel	9870-465-SSP	1m	11.3	28.30	C	✓	✓	✓	29.6	✓	X
	Perforated Stainless Steel	9870-465-SSP	.5m	5.7	14.10	C	✓	✓	✓	29.6	✓	X
	ADA Ductile Iron	9870-478-ADA	.5m	12.8	22.50	*C	✓	✓	✓	25.8	✓	✓
	Mosaic Ductile Iron	9870-479-MD	.5m	10	13.00	C	X	X	✓	24.6	✓	X
	Decorative Ductile Iron	9870-481-ID	.5m	9	19.00	C	X	X	✓	38.8	✓	X
	Slotted Plastic Resin	9870-492-RC	.5m	2.2	35.60	C	X	X	X	86.4	✓	X
	Brickslot Galvanized Steel	**9835-Brickslot Grate	1m	18.4	18.60	C	✓	X	✓	N/A	✓	X

## Load Class E: Extra Heavy Duty

Extra Heavy Duty, EN1433 Class E - 135,000 lbs. - 2,788 psi for commercial solid tire traffic patterns, forklifts and impacts from steel struts or metal wheels

Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Slotted Galvanized Steel	9870-435-GHDE	1m	13.7	35.20	E	X	X	X	27.4	✓	✓
	Slotted Galvanized Steel	9870-435-GHDE	.5m	6.8	17.60	E	X	X	X	27.4	✓	✓
	Slotted Stainless Steel	9870-490-SSHDE	1m	13.7	35.20	E	X	X	X	29.9	✓	✓
	Slotted Stainless Steel	9870-490-SSHDE	.5m	6.80	17.60	E	X	X	X	29.9	✓	✓

QuickLok® securing device regularly furnished unless otherwise requested.

# 6" Grates for 9940 Series

Load Class A: Light Duty												
Light Duty, EN1433 Class A - 3,500 lbs - 70 psi for pedestrian, wheelchair and bicycle traffic												
Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Perforated Galvanized Steel	9870-410-GP	1m	6.3	28.30	A	✓	✓	✓	22.6	X	X
	Perforated Galvanized Steel	9870-410-GP	.5m	3.2	14.10	A	✓	✓	✓	22.6	X	X
	Slotted Galvanized Steel	9870-420-G	1m	5.9	35.20	A	X	X	X	27.4	X	X
	Slotted Galvanized Steel	9870-420-G	.5m	3.0	17.60	A	X	X	X	27.4	X	X
	Slotted Stainless Steel	9870-450-SS	1m	5.9	35.20	A	X	X	X	29.9	X	X
	Slotted Stainless Steel	9870-450-SS	.5m	3.0	17.60	A	X	X	X	29.9	X	X
	Perforated Stainless Steel	9870-451-SSPA	1m	6.3	28.30	A	X	✓	✓	29.6	X	X
	Perforated Stainless Steel	9870-451-SSPA	.5m	6.3	14.10	A	X	✓	✓	29.6	X	X
	Slotted Black Polypropylene	9870-491-HPP	.5m	1.8	17.55	A	X	X	✓	—	X	X
	ADA Black Polypropylene	9870-494-PADAB	.5m	1.8	27.40	A	✓	✓	✓	52.5	X	X
Load Class B: Light Duty												
Light Duty, EN1433 Class B - 28,000 lbs - 580 psi for pedestrian, wheelchair and bicycle traffic												
	Mesh Stainless Steel	9870-447-SSADA	1m	8	93.70	B	✓	✓	✓	51.3	X	X
	Mesh Stainless Steel	9870-447-SSADA	.5m	4	46.9	B	✓	✓	✓	51.3	X	X
Load Class C: Heavy Duty												
Heavy Duty, EN1433 Class C - 56,000 lbs. 1,162 psi for commercial pneumatic tire traffic patterns, forklifts, and tractor trailers												
	Mesh Galvanized Steel	9870-405-GM	1m	7.8	121.00	C	X	X	✓	52.1	✓	X
	Mesh Galvanized Steel	9870-406-GM	.5m	3.9	58.00	C	X	X	✓	52.1	✓	X
	Perforated Galvanized Steel	9870-411-GPHD	1m	11.3	28.30	C	✓	✓	✓	22.6	✓	X
	Perforated Galvanized Steel	9870-411-GPHD	.5m	5.7	14.10	C	✓	✓	✓	22.6	✓	X
	Slotted Galvanized Steel	9870-425-GHD	1m	8.8	35.20	C	X	X	X	27.4	✓	X
	Slotted Galvanized Steel	9870-425-GHD	.5m	4.4	17.60	C	X	X	X	27.4	✓	X

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# 9940 SERIES ACCESSORIES



Horizontal Cap



End Cap



4" No-Hub Vertical  
Outlet Fitting  
(Snaps on anywhere  
on the channel)

 **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



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