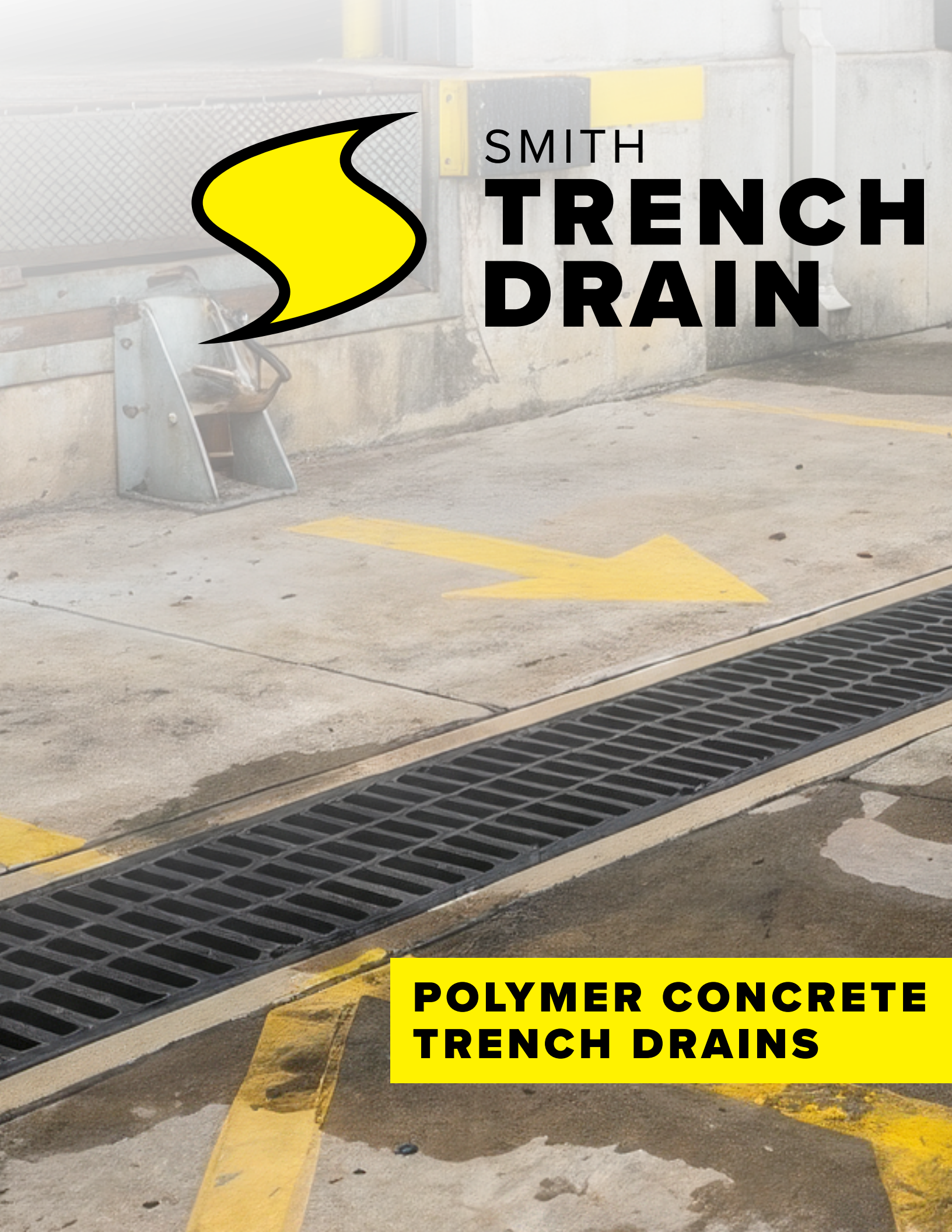


SMITH

TRENCH DRAIN

POLYMER CONCRETE TRENCH DRAINS



TRENCH DRAIN SYSTEM SELECTION

FOLLOW THESE 10 STEPS TO PROPERLY SELECT YOUR DRAINAGE SYSTEM.

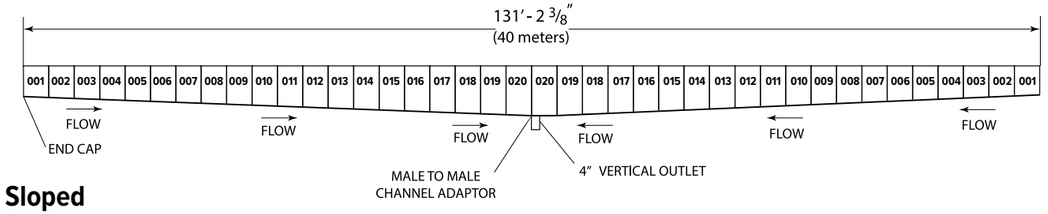
To select the proper drainage system:

1. Identify the anticipated traffic traveling over the top of the trench drain.
2. Calculate the length and depth of the catchment area.
3. Consider site restrictions, utilities, invert depth of required output.
4. Identify rainfall intensity over the given area. Identify the outlet position, source and flow rate of the liquid to be drained.
5. Determine runoff surface flow characteristics.
6. Calculate required flow rate per section of drainage channel and its distribution (i.e., evenly or unevenly distributed).
7. Select the system with the appropriate capacity for the conditions identified.
8. Determine the number, size and positions of outlets to the drainage system.
9. Determine the concentration of the chemicals to which the system may be exposed. See the Chemical Resistance Chart on our website at www.smithtrenchdrain.com.
10. Select appropriate load class grate and flow rate.

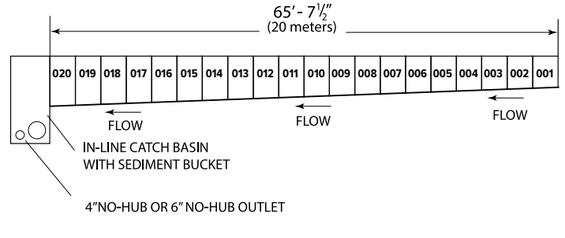
Contact your local Jay R. Smith Mfg. Co. manufacturer's rep or the Jay R. Smith Mfg. Co. Trench Drain Team. Shop Drawings are available on request.

TRENCH DRAIN SYSTEM CONFIGURATION

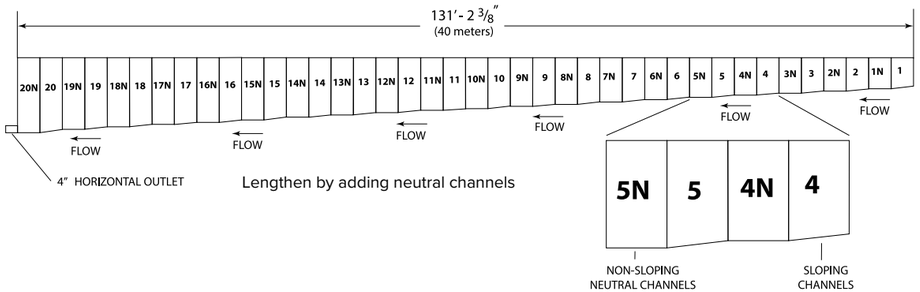
Center Outlet - Sloped



End Outlet with Catch Basin - Sloped



End Outlet - Sloped and Non-sloped



- Channels can be both pre-sloped and neutral.
- Always begin installation with the discharge channel or catch basin and work back to the shallow end.
- Arrows on channels indicate flow direction and numbers indicate sequence of installation.
- If field trimming is necessary, always trim channels at shallow end of system.
- Insert board must be maintained in the channel during the final pour.
- Trench drain should be installed 1/8" below finished elevation. This allows for positive flow into channel.
- See structural drawings for reinforcement of encasement concrete and the location of expansion joints.

Total channels based on system type.

SMITH
TRENCH
DRAIN

APPLICATIONS:

PARKING GARAGES & LOADING DOCKS | POOLS / PLAZAS & PEDESTRIAN AREAS | ADA-COMPLIANT COMMERCIAL OFFICE / HOSPITALITY & HEALTHCARE

INTEGRAL METAL EDGE RAIL



9895



9896



9897



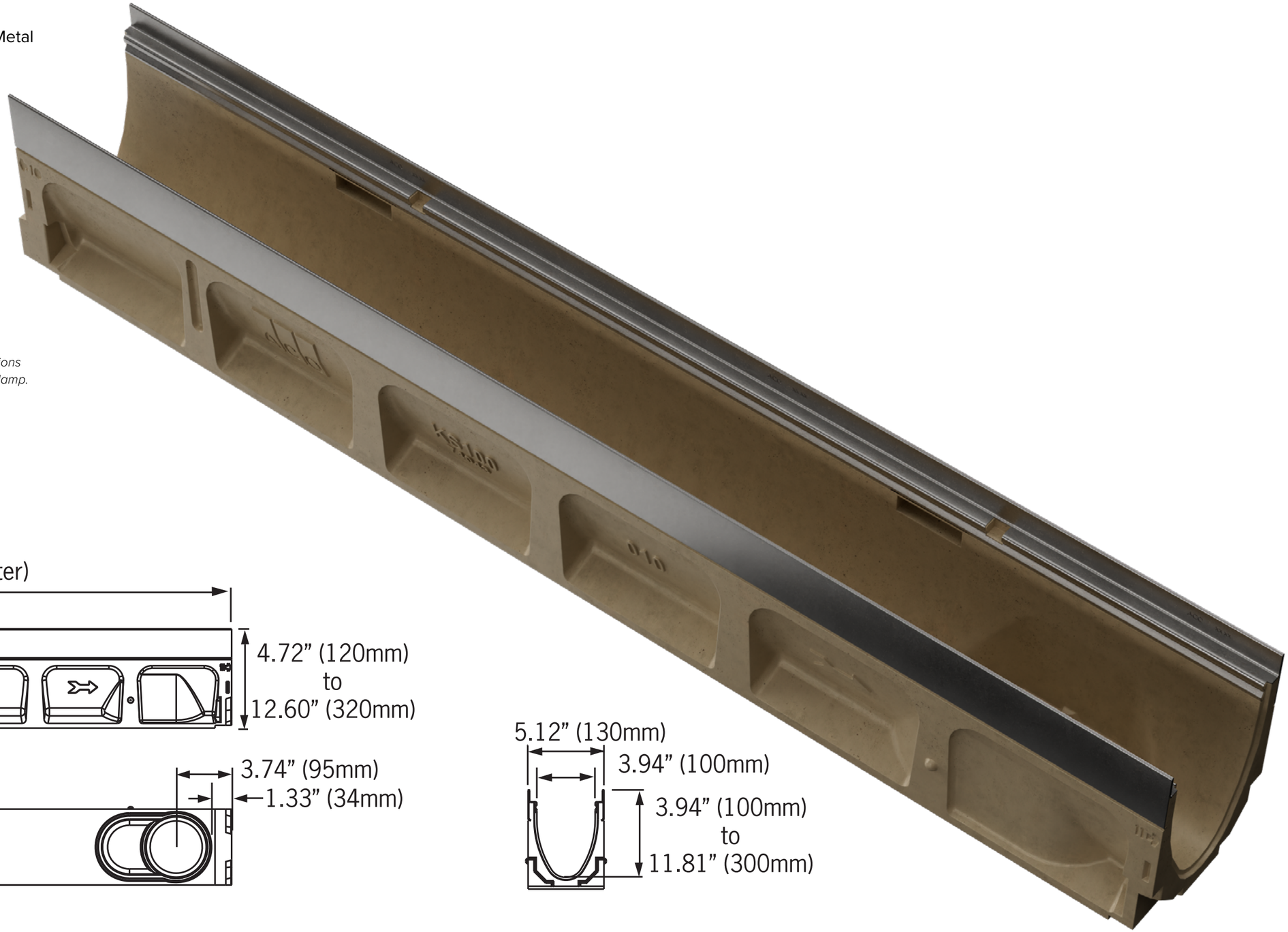
9895

6” Wide Pre-Sloped Trench Drains with Integral Metal Edge Rail - KlassikDrain

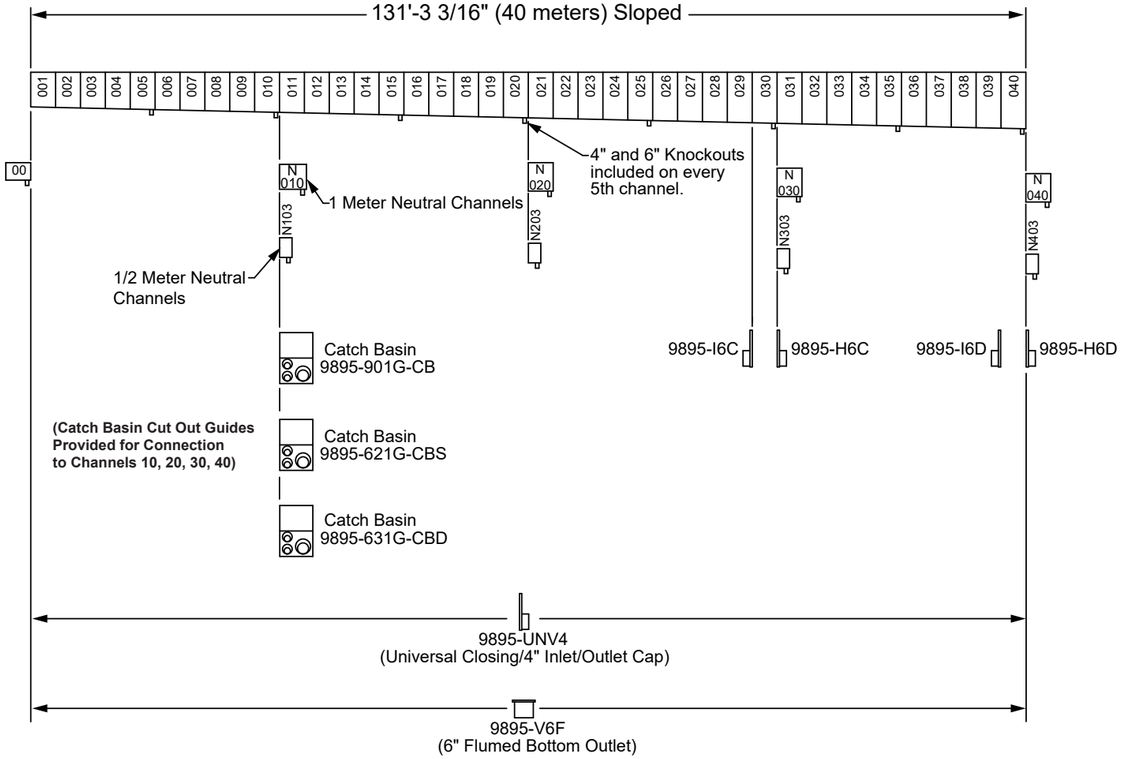
FEATURES

- Integral galvanized steel rail
- Optional stainless steel rail
- 0.5% pre-sloped and neutral channels (see chart next page for invert depths)
- Load ratings up to and including E (135,000 lbs.)
- Concrete finisher friendly with straight edge
- QuickLok® feature - no bolts to remove when cleaning out trench drain
- Built-in knockouts for outlets every 5 channel sections (see diagram next page)

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.





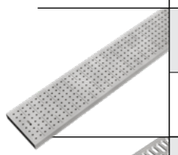
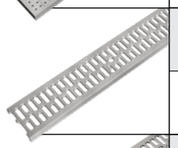




SEE THE 9895 SYSTEM HERE:

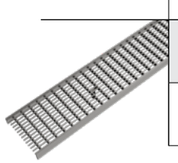
Load Class A: Light Duty

EN1433 Class A - 3,500 lbs - 70 psi

	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-GP1G	1m	6.3	28.30	A	✓	✓	✓	X	X	X
	Perforated Galvanized Steel	9870-410-GP.5G	.5m	3.2	14.10	A	✓	✓	✓	X	X	X
	Slotted Galvanized Steel	9870-420-G1G	1m	5.9	35.20	A	X	X	X	✓	X	X
	Slotted Galvanized Steel	9870-420-G.5G	.5m	3.0	17.60	A	X	X	X	✓	X	X
	Slotted Stainless Steel	9870-450-SS1G	1m	5.9	35.20	A	X	X	X	✓	X	X
	Slotted Stainless Steel	9870-450-SS.5G	.5m	3.0	17.60	A	X	X	X	✓	X	X
	Perforated Stainless Steel	9870-451-SSPA1G	1m	6.3	28.30	A	X	✓	✓	✓	X	X
	Perforated Stainless Steel	9870-451-SSPA.5G	.5m	6.3	14.10	A	X	✓	✓	✓	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	✓	✓	✓	✓	X	X

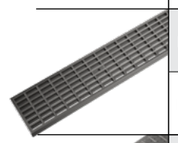
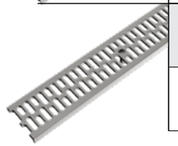
Load Class B: Light Duty

EN1433 Class B - 28,000 lbs - 580 psi

	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	9870-447-SSADA1G	1m	8	93.70	B	✓	✓	✓	✓	X	X
	Mesh Stainless Steel	9870-447-SSADA5G	.5m	4	46.9	B	✓	✓	✓	✓	X	X

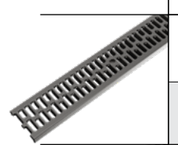
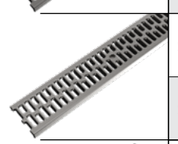
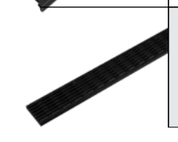
Load Class C: Heavy Duty

EN1433 Class C - 56,000 lbs. 1,162 psi

	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Mesh Galvanized Steel	9870-405-GM1G	1m	7.8	121.00	C	X	X	✓	✓	✓	X
	Mesh Galvanized Steel	9870-405-GM.5G	.5m	3.9	58.00	C	X	X	✓	✓	✓	X
	Perforated Galvanized Steel	9870-411-GPHD1G	1m	11.3	28.30	C	✓	✓	✓	X	✓	X
	Perforated Galvanized Steel	9870-411-GPHD.5G	.5m	5.7	14.10	C	✓	✓	✓	X	✓	X
	Slotted Galvanized Steel	9870-425-GHD1G	1m	8.8	35.20	C	X	X	X	✓	✓	X
	Slotted Galvanized Steel	9870-425-GHD.5G	.5m	4.4	17.60	C	X	X	X	✓	✓	X

Load Class E: Heavy Duty

EN1433 Class E - 135,000 lbs. - 2,788 psi

	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-GHDE1G	1m	13.7	35.20	E	X	X	X	✓	✓	✓
	Slotted Galvanized Steel	9870-435-GHDE.5G	.5m	6.8	17.60	E	X	X	X	✓	✓	✓
	Slotted Stainless Steel	9870-490-SSHDE1G	1m	13.7	35.20	E	X	X	X	✓	✓	✓
	Slotted Stainless Steel	9870-490-SSHDE .5G	.5m	6.80	17.60	E	X	X	X	✓	✓	✓
	Slotted Ductile Iron	9870-461-M	.5m	10.2	34.10	*C	X	X	X	✓	✓	✓
	ADA Ductile Iron	9870-478-ADA	.5m	12.8	22.50	*C	✓	✓	✓	✓	✓	✓

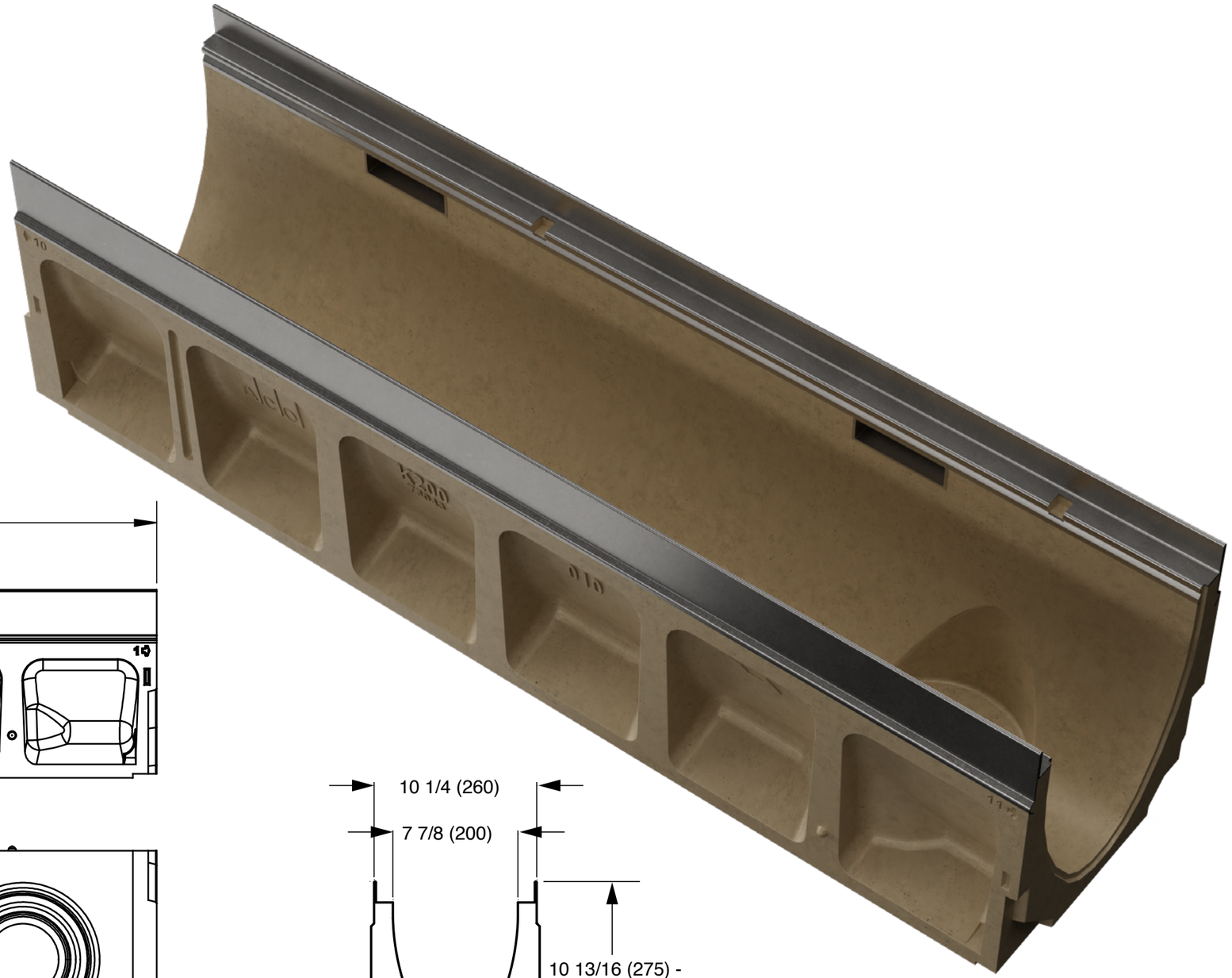
9896

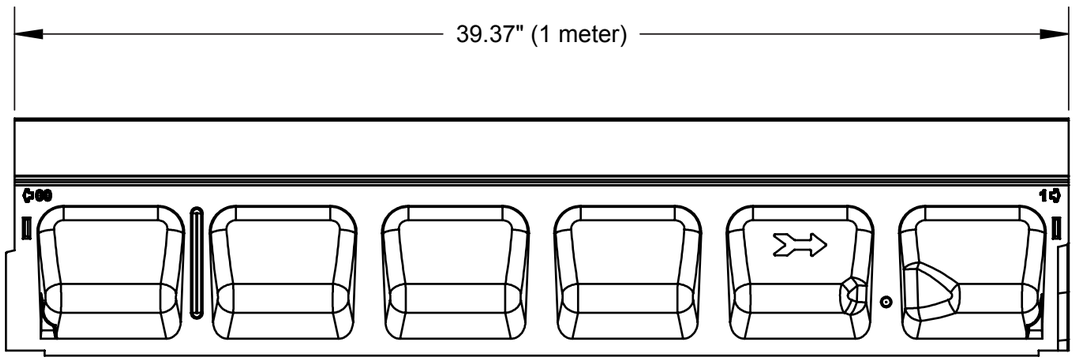
10” Wide Pre-Sloped Trench Drains
with Integral Metal Edge Rail - KlassikDrain

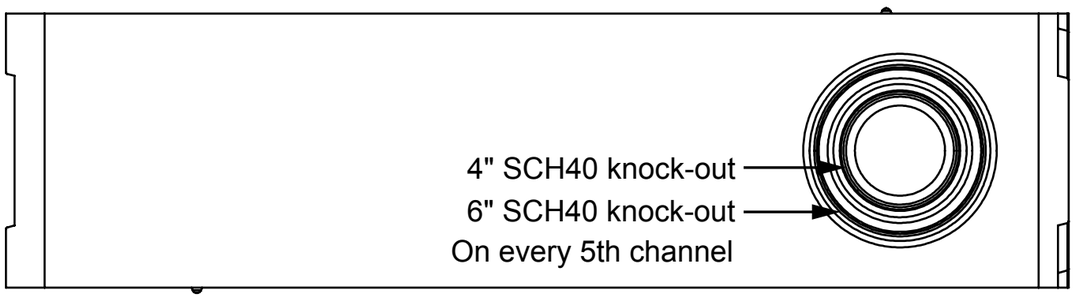
FEATURES

- Up to 40 (1 meter) sloped channel sections and (1 meter and 1/2 meter) non-sloped channel sections
- 8” inside width—wider flow area for higher discharge rates
- Grates are secured with patented QuickLok® boltless locking system
- Galvanized edge rail regularly furnished; stainless steel rail option available
- Three catch basin options—9896-902, 9896-621 or 9896-631
- Built-in slope of 0.5%

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.

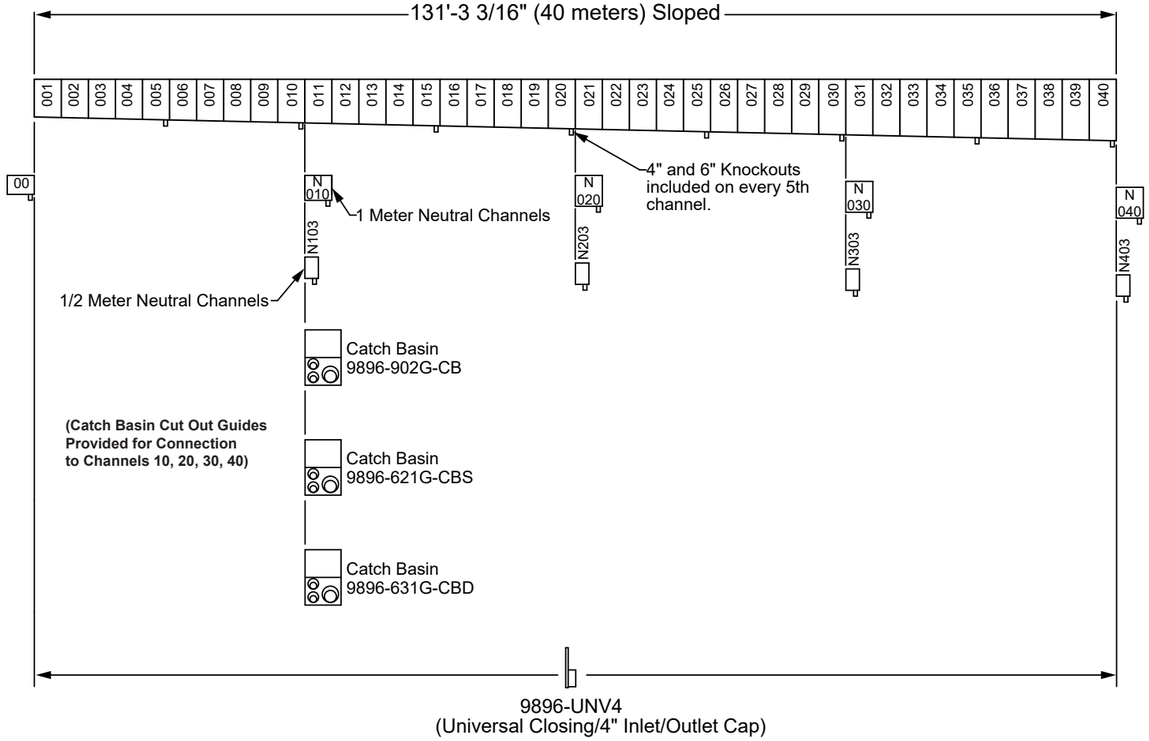








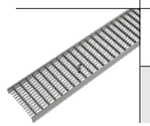




SEE THE 9896 SYSTEM HERE:

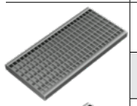
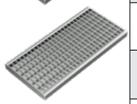
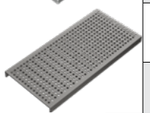
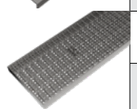
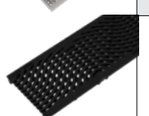
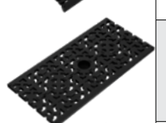
Load Class A: Light Duty

EN1433 Class A - 3,500 lbs - 70 psi

Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Slotted Bar Stainless Steel	9880-647-SSADA1G	1m	17.7	171	A	✓	✓	✓	✓	X	X
	Slotted Bar Stainless Steel	9880-647-SSADA.5G	.5m	9	89.1	A	✓	✓	✓	✓	X	X

Load Class C: Heavy Duty

EN1433 Class C - 56,000 lbs. 1,162 psi

Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Galvanized Steel Mesh	9880-605-GM1G	1m	31.7	256	C	X	X	✓	✓	✓	X
	Galvanized Steel Mesh	9880-605-GM.5G	.5m	16.1	128	C	X	X	✓	✓	✓	X
	Stainless Steel Mesh	9880-630-SSM1G	1m	31.7	256	C	X	X	✓	✓	✓	X
	Stainless Steel Mesh	9880-631-SSM.5G	.5m	16.1	128	C	X	X	✓	✓	✓	X
	Perforated Galvanized Steel Mesh	9880-611-GP1G	1m	21	44.6	C	✓	✓	✓	X	✓	X
	Perforated Galvanized Steel Mesh	9880-613-GP.5G	.5m	10.5	22.3	C	✓	✓	✓	X	✓	X
	Perforated Stainless Steel Mesh	9880-665-SSP1G	1m	21	44.6	C	✓	✓	✓	✓	✓	X
	Perforated Stainless Steel Mesh	9880-666-SSP.5G	.5m	10.5	22.3	C	✓	✓	✓	✓	✓	X
	Mosaic Ductile Iron	9880-679-MD.5G	.5m	34	38.3	C	✓	✓	✓	✓	✓	X
	Wave Ductile Iron	9880-680-IW.5G	.5m	28	58.1	C	✓	✓	✓	✓	✓	X
	Decorative Ductile Iron	9880-681-ID	.5m	27	29.1	C	✓	✓	✓	✓	✓	X

Load Class E: Heavy Duty

EN1433 Class E - 135,000 lbs. - 2,788 psi

Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Slotted Ductile Iron	9880-661-M	.5m	30.8	81.9	*E	X	X	✓	✓	✓	X
	ADA Ductile Iron	9880-678-MADA	.5m	22	60.6	*E	✓	✓	✓	✓	✓	X

FIGURE NO. 9897

9897

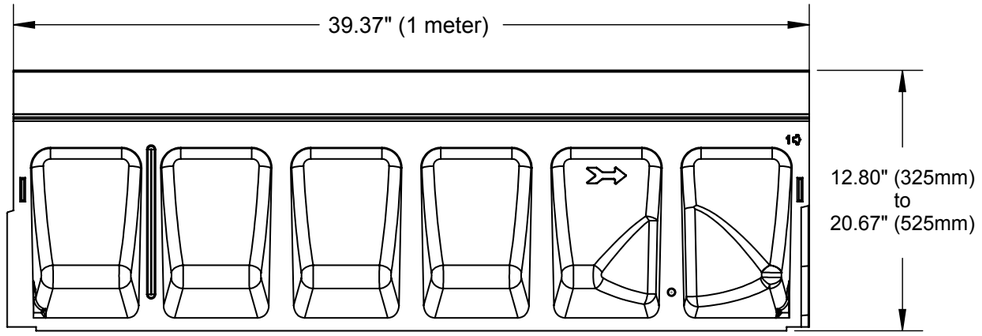
14” Wide Pre-Sloped Trench Drains with Integral Ductile Iron Edge Rail for Extra Heavy Duty Applications - PowerLok®

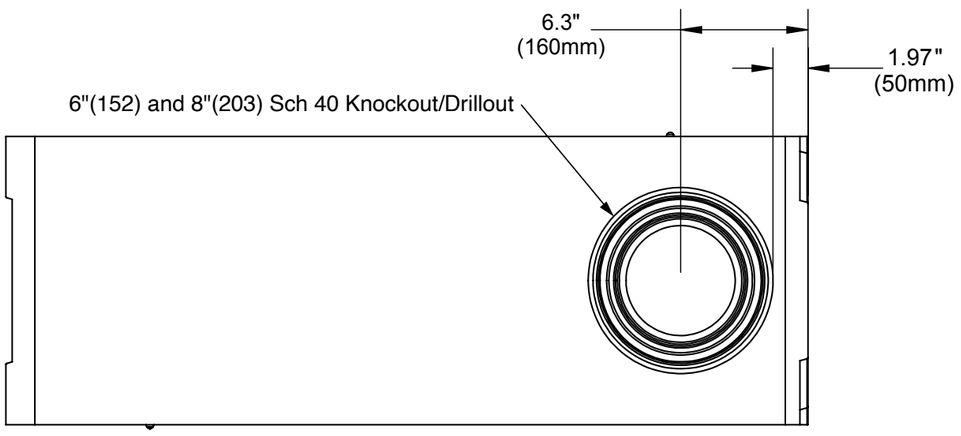
FEATURES

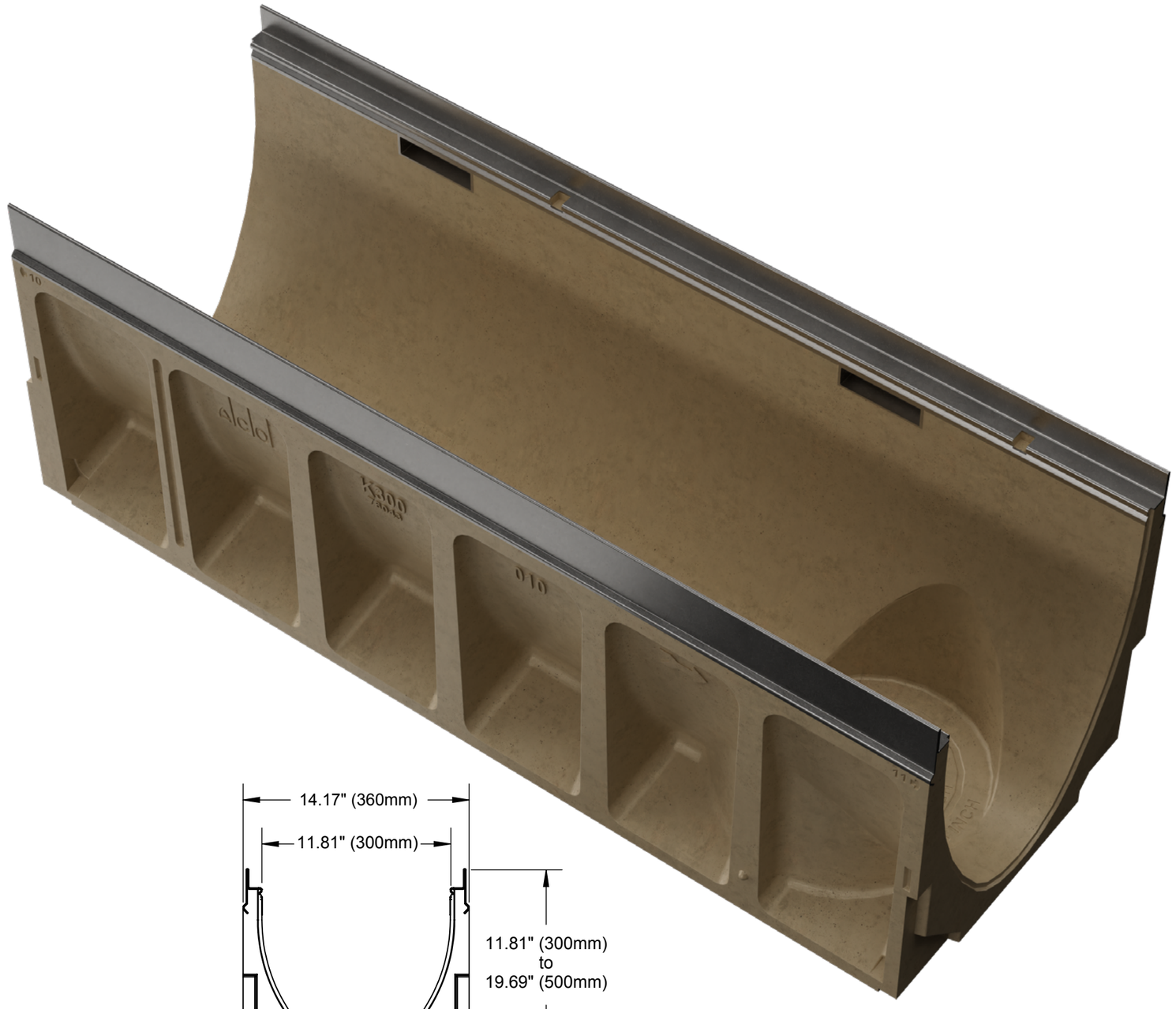
- A high-capacity version of our 9877
- EN1433 Class F rated for 202,320 pound loads
- 0.5% Pre-sloped and non-sloping neutral sections
(see diagram on next page for beginning and ending inverts)
- The grate is secured with a PowerLok® boltless locking device
- Integral shunts built into the ductile frame and grate to prevent lateral movement
- Built-in vertical outlet sections
- ADA Grate

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.

Regularly furnished with boltless PowerLok® securing device.

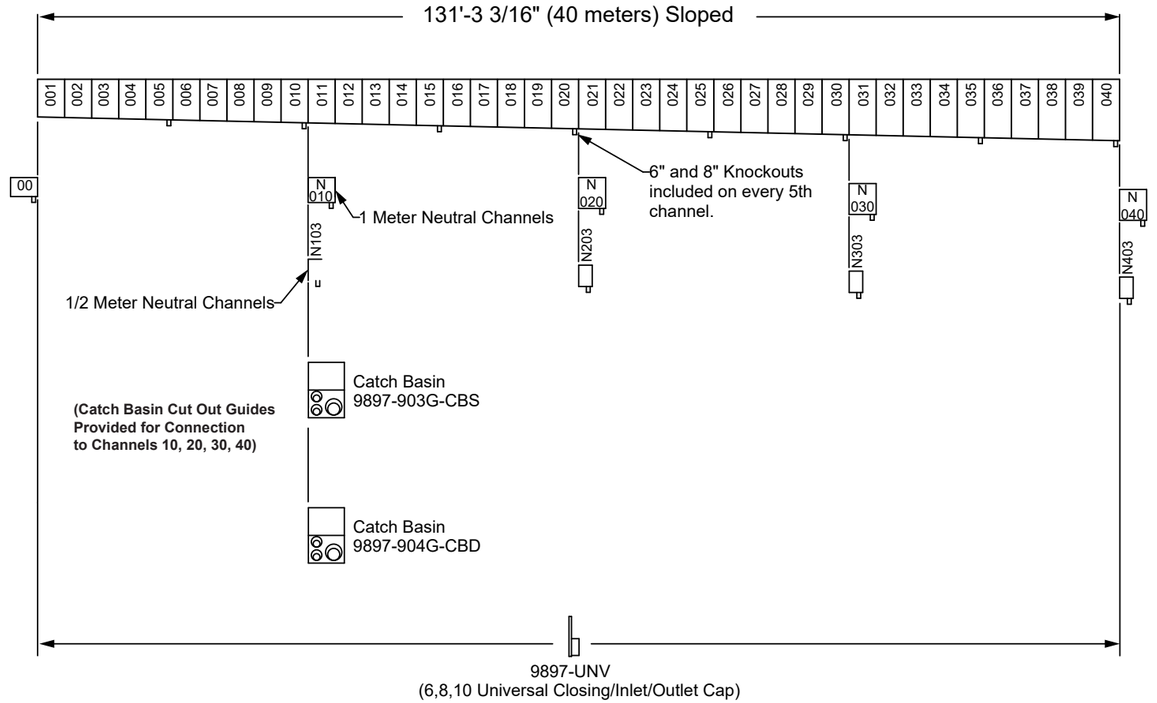








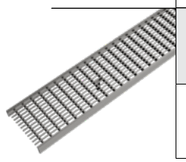




SEE THE 9897 SYSTEM HERE:

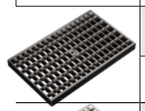
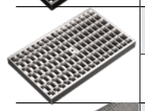
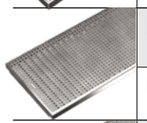
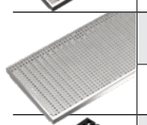
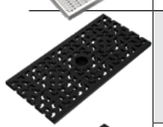
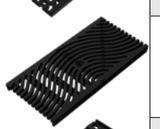
Load Class A: Light Duty

EN1433 Class A - 3,500 lbs - 70 psi

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	9890-847-SSADA1G	1m	28.6	238.2	A	✓	✓	✓	✓	X	X
	Mesh Stainless Steel	9890-847-SSADA.5G	.5m	14.5	131.6	A	✓	✓	✓	✓	X	X

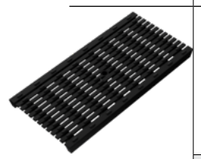
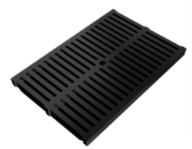
Load Class C: Heavy Duty

EN1433 Class C - 56,000 lbs. 1,162 psi

Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Galvanized Steel Mesh	9890-805-GM1G	1m	29.5	192	C	X	X	✓	✓	✓	X
	Galvanized Steel Mesh	9890-805-GM.5G	.5m	29.5	192	C	X	X	✓	✓	✓	X
	Stainless Steel Mesh	9890-830-SSM1G	1m	29.5	192	C	X	X	✓	✓	✓	X
	Stainless Steel Mesh	9890-830-SSM.5G	.5m	29.5	192	C	X	X	✓	✓	✓	X
	Perforated Galvanized Steel Mesh	9890-811-GP1G	1m	30.9	64.8	C	✓	✓	✓	X	✓	X
	Perforated Galvanized Steel Mesh	9890-813-GP.5G	.5m	15	31.9	C	✓	✓	✓	X	✓	X
	Perforated Stainless Steel Mesh	9890-865-SSP1G	1m	30.9	64.8	C	✓	✓	✓	✓	✓	X
	Perforated Stainless Steel Mesh	9890-866-SSP.5G	.5m	15	31.9	C	✓	✓	✓	✓	✓	X
	Mosaic Ductile Iron	9890-879-MD	.5m	47.3	46.97	C	✓	✓	✓	X	✓	X
	Wave Ductile Iron	9890-880-IW	.5m	48	77.77	C	✓	✓	✓	✓	✓	X
	Decorative Ductile Iron	9890-881-ID	.5m	47	54.6	C	✓	✓	✓	✓	✓	X

Load Class E: Heavy Duty

EN1433 Class E - 135,000 lbs. - 2,788 psi

Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Longitudinal Slotted Ductile Iron	9890-878-MADA	.5m	35	61.85	*E	✓	✓	✓	✓	✓	X
	Slotted Ductile Iron	9890-861-M	.5m	48	128.71	*E	X	X	✓	✓	✓	X

SMITH
TRENCH
DRAIN

APPLICATIONS:

PARKING GARAGES & LOADING DOCKS | POOLS / PLAZAS & PEDESTRIAN AREAS | ADA-COMPLIANT COMMERCIAL OFFICE / HOSPITALITY & HEALTHCARE

INTEGRAL METAL EDGE RAIL



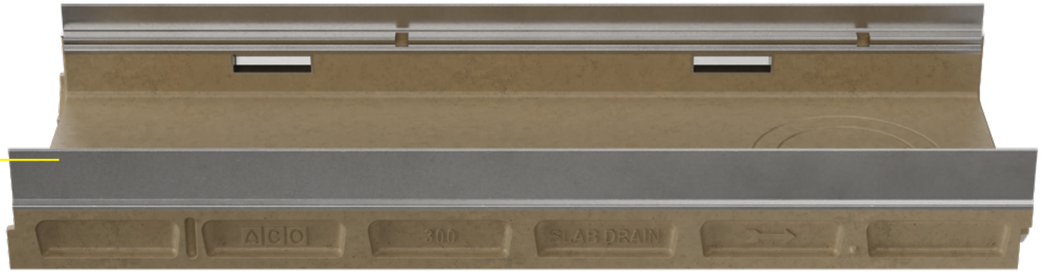
9836



9898



9899



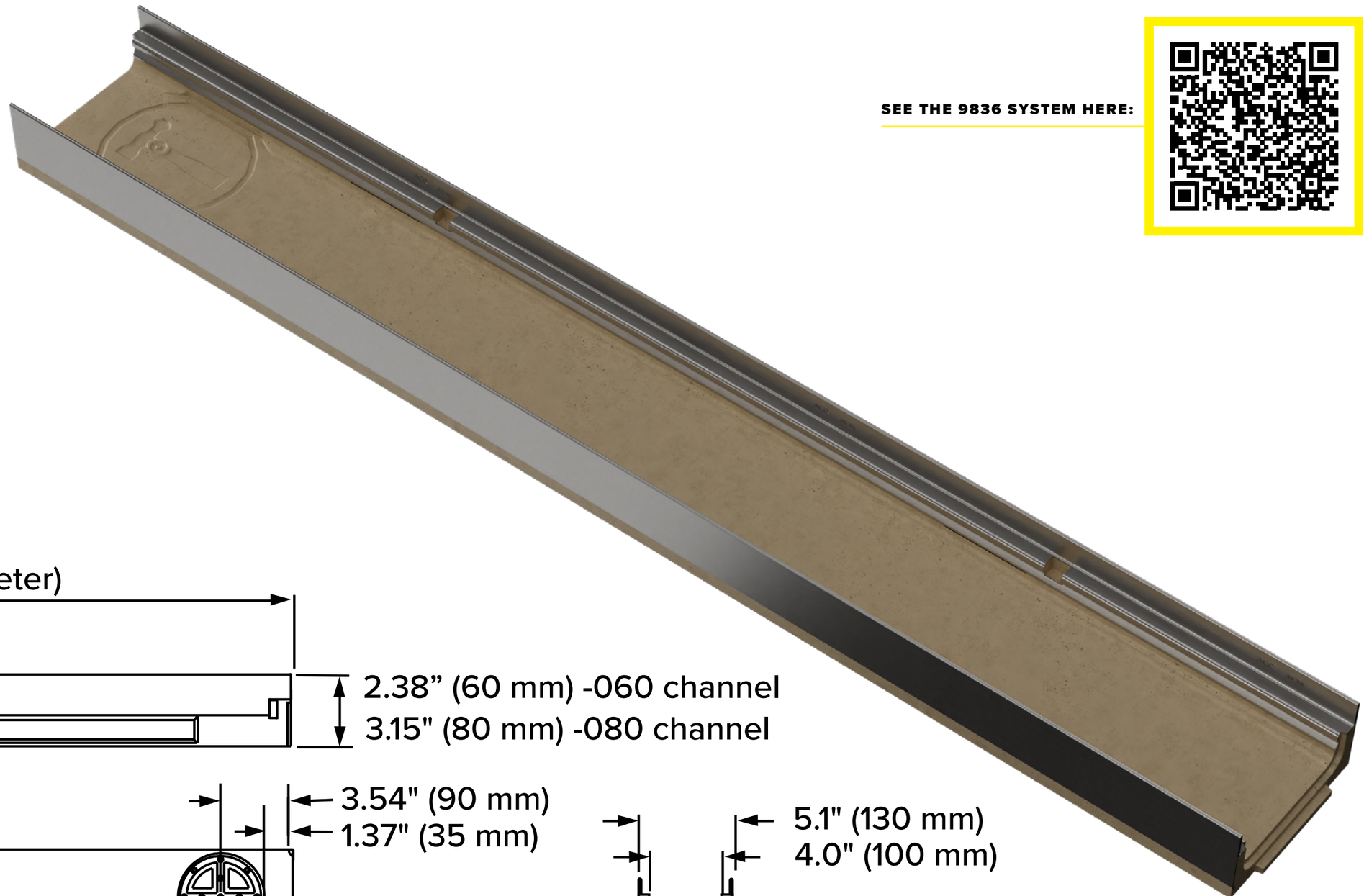
9836

6” Wide Non-Sloped Shallow Trench Drains with Integral Galvanized Edge Rail

FEATURES:

- 1 meter (3.28’) precast polyester polymer concrete construction
- High-strength, lightweight channels feature interlocking design
- Groove profile for ease of installation and alignment
- Non-sloping bottom
- Supplied with secured grate per specification

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.



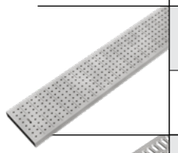
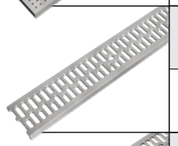
SEE THE 9836 SYSTEM HERE:

SMITH TRENCH DRAIN

FIGURE NO. 9836
GRATES

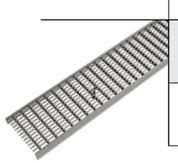
Load Class A: Light Duty

EN1433 Class A - 3,500 lbs - 70 psi

	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-GP1G	1m	6.3	28.30	A	✓	✓	✓	X	X	X
	Perforated Galvanized Steel	9870-410-GP.5G	.5m	3.2	14.10	A	✓	✓	✓	X	X	X
	Slotted Galvanized Steel	9870-420-G1G	1m	5.9	35.20	A	X	X	X	✓	X	X
	Slotted Galvanized Steel	9870-420-G.5G	.5m	3.0	17.60	A	X	X	X	✓	X	X
	Slotted Stainless Steel	9870-450-SS1G	1m	5.9	35.20	A	X	X	X	✓	X	X
	Slotted Stainless Steel	9870-450-SS.5G	.5m	3.0	17.60	A	X	X	X	✓	X	X
	Perforated Stainless Steel	9870-451-SSPA1G	1m	6.3	28.30	A	X	✓	✓	✓	X	X
	Perforated Stainless Steel	9870-451-SSPA.5G	.5m	6.3	14.10	A	X	✓	✓	✓	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	✓	✓	✓	✓	X	X

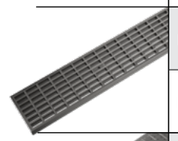
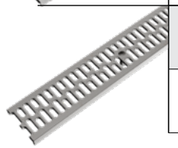
Load Class B: Light Duty

EN1433 Class B - 28,000 lbs - 580 psi

	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	9870-447-SSADA1G	1m	8	93.70	B	✓	✓	✓	✓	X	X
	Mesh Stainless Steel	9870-447-SSADA.5G	.5m	4	46.9	B	✓	✓	✓	✓	X	X

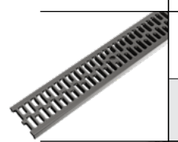
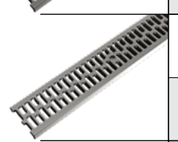
Load Class C: Heavy Duty

EN1433 Class C - 56,000 lbs. 1,162 psi

	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Mesh Galvanized Steel	9870-405-GM1G	1m	7.8	121.00	C	X	X	✓	✓	✓	X
	Mesh Galvanized Steel	9870-405-GM.5G	.5m	3.9	58.00	C	X	X	✓	✓	✓	X
	Perforated Galvanized Steel	9870-411-GPHD1G	1m	11.3	28.30	C	✓	✓	✓	X	✓	X
	Perforated Galvanized Steel	9870-411-GPHD.5G	.5m	5.7	14.10	C	✓	✓	✓	X	✓	X
	Slotted Galvanized Steel	9870-425-GHD1G	1m	8.8	35.20	C	X	X	X	✓	✓	X
	Slotted Galvanized Steel	9870-425-GHD.5G	.5m	4.4	17.60	C	X	X	X	✓	✓	X

Load Class E: Heavy Duty

EN1433 Class E - 135,000 lbs. - 2,788 psi

	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-GHDE1G	1m	13.7	35.20	E	X	X	X	✓	✓	✓
	Slotted Galvanized Steel	9870-435-GHDE.5G	.5m	6.8	17.60	E	X	X	X	✓	✓	✓
	Slotted Stainless Steel	9870-490-SSHDE1G	1m	13.7	35.20	E	X	X	X	✓	✓	✓
	Slotted Stainless Steel	9870-490-SSHDE.5G	.5m	6.80	17.60	E	X	X	X	✓	✓	✓
	Slotted Ductile Iron	9870-461-M.5G	.5m	10.2	34.10	*C	X	X	X	✓	✓	✓
	ADA Ductile Iron	9870-478.MADA.5G	.5m	12.8	22.50	*C	✓	✓	✓	✓	✓	✓

SMITH TRENCH DRAIN

FIGURE NO. 9898

INTEGRAL METAL EDGE RAIL

9898

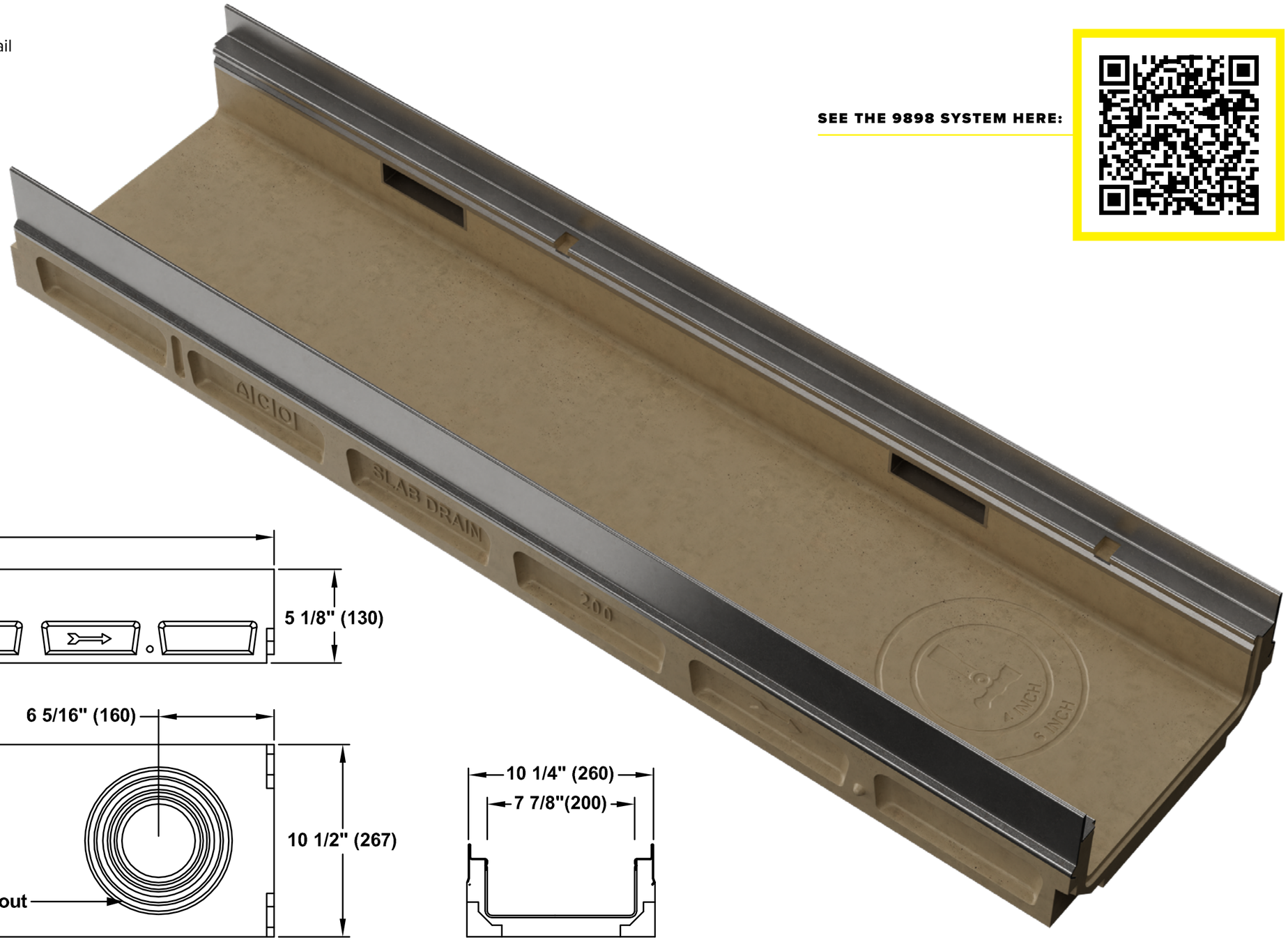
10” Wide Shallow Trench Drains with Integral Metal Edge Rail - SlabDrain

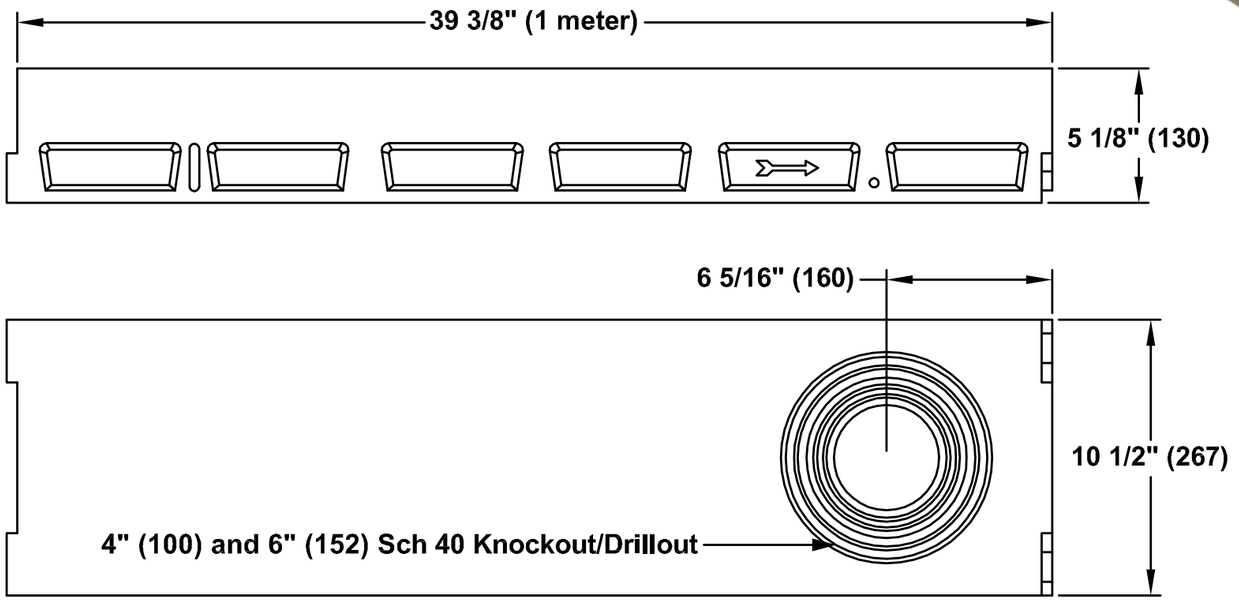
FEATURES

- 3.94” invert depth for applications in shallow areas
- 8” inside width
- 4” and 6” bottom knockouts on each channel section
- Grates are secured with patented QuickLok® boltless locking system
- Galvanized edge rail regularly furnished; stainless steel rail option available

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.

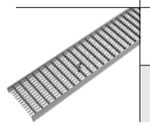
SEE THE 9898 SYSTEM HERE:





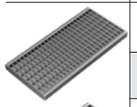
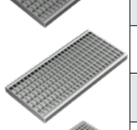
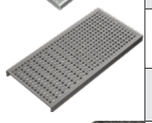
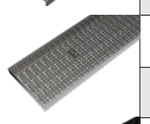
Load Class A: Light Duty

EN1433 Class A - 3,500 lbs - 70 psi

Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Slotted Bar Stainless Steel	9880-647-SSADA1G	1m	17.7	171	A	✓	✓	✓	✓	X	X
	Slotted Bar Stainless Steel	9880-647-SSADA.5G	.5m	9	89.1	A	✓	✓	✓	✓	X	X

Load Class C: Heavy Duty

EN1433 Class C - 56,000 lbs. 1,162 psi

Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Galvanized Steel Mesh	9880-605-GM1G	1m	31.7	256	C	X	X	✓	✓	✓	X
	Galvanized Steel Mesh	9880-605-GM.5G	.5m	16.1	128	C	X	X	✓	✓	✓	X
	Stainless Steel Mesh	9880-630-SSM1G	1m	31.7	256	C	X	X	✓	✓	✓	X
	Stainless Steel Mesh	9880-630-SSM.5G	.5m	16.1	128	C	X	X	✓	✓	✓	X
	Perforated Galvanized Steel Mesh	9880-611-GP1G	1m	21	44.6	C	✓	✓	✓	X	✓	X
	Perforated Galvanized Steel Mesh	9880-611-GP.5G	.5m	10.5	22.3	C	✓	✓	✓	X	✓	X
	Perforated Stainless Steel Mesh	9880-665-SSP1G	1m	21	44.6	C	✓	✓	✓	✓	✓	X
	Perforated Stainless Steel Mesh	9880-665--SSP.5G	.5m	10.5	22.3	C	✓	✓	✓	✓	✓	X
	Mosaic Ductile Iron	9880-679-MD.5G	.5m	34	38.3	C	✓	✓	✓	X	✓	X
	Wave Ductile Iron	9880-680-IW	.5m	28	58.1	C	✓	✓	✓	✓	✓	X
	Decorative Ductile Iron	9880-681-ID	.5m	27	29.1	C	✓	✓	✓	✓	✓	X

Load Class E: Heavy Duty

EN1433 Class E - 135,000 lbs. - 2,788 psi

Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Slotted Ductile Iron	9880-661-M	.5m	30.8	81.9	*E	X	X	✓	✓	✓	X
	ADA Ductile Iron	9880-678-MADA	.5m	22	60.6	*E	✓	✓	✓	✓	✓	X

FIGURE NO. 9899

INTEGRAL METAL EDGE RAIL

9899

14” Wide Pre-Sloped Trench Drains

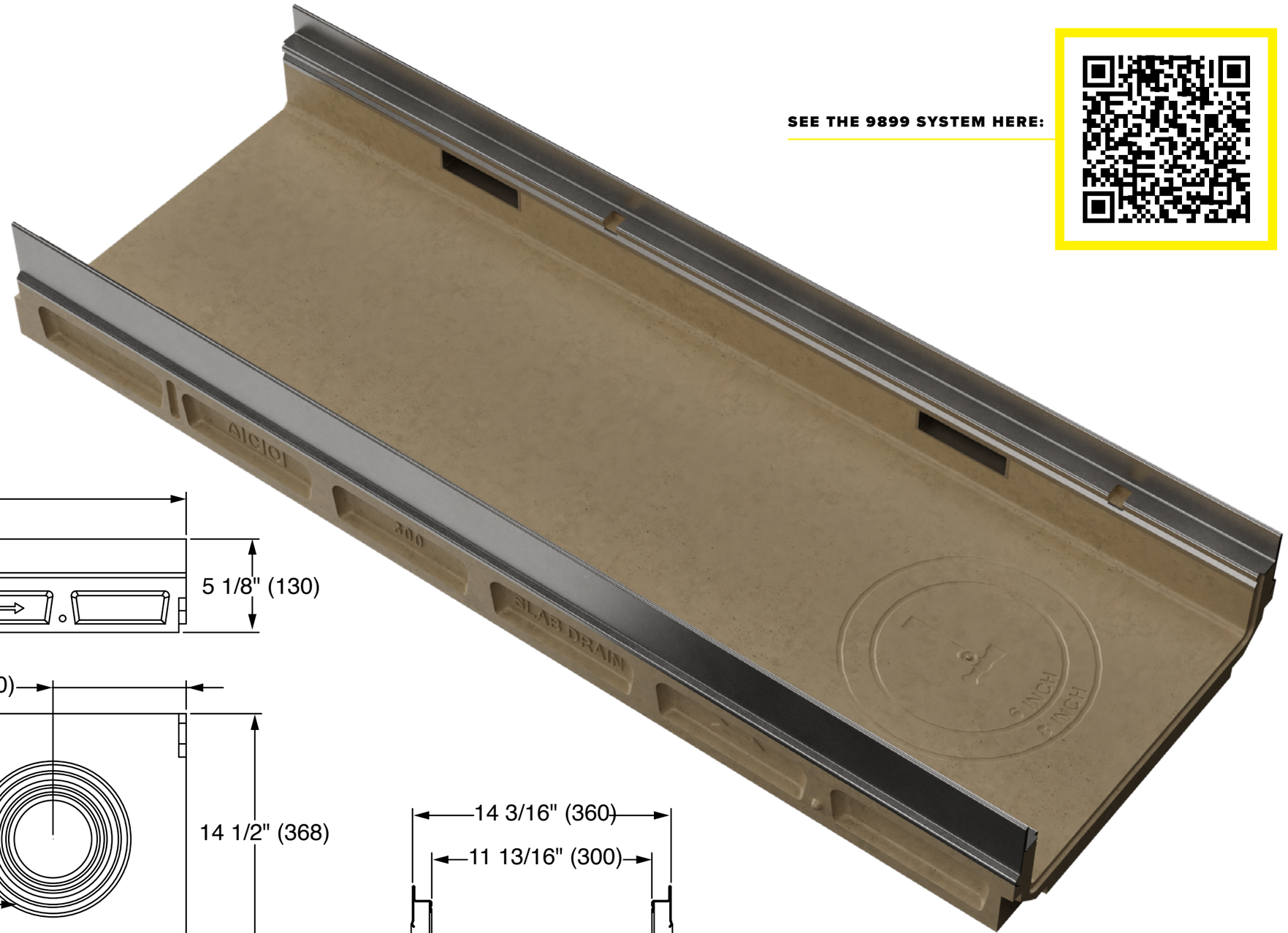
FEATURES

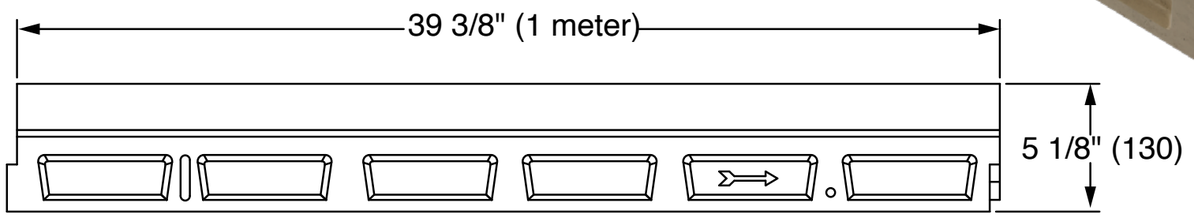
- EN1433 Class E rated
- 0.5% Pre-sloped and non-sloping neutral sections
(see diagram on next page for beginning and ending inverts)
- The grate is secured with a PowerLok® boltless locking device
- Integral shunts built into the ductile frame and grate to prevent lateral movement
- Built-in vertical outlet sections
- ADA Grate

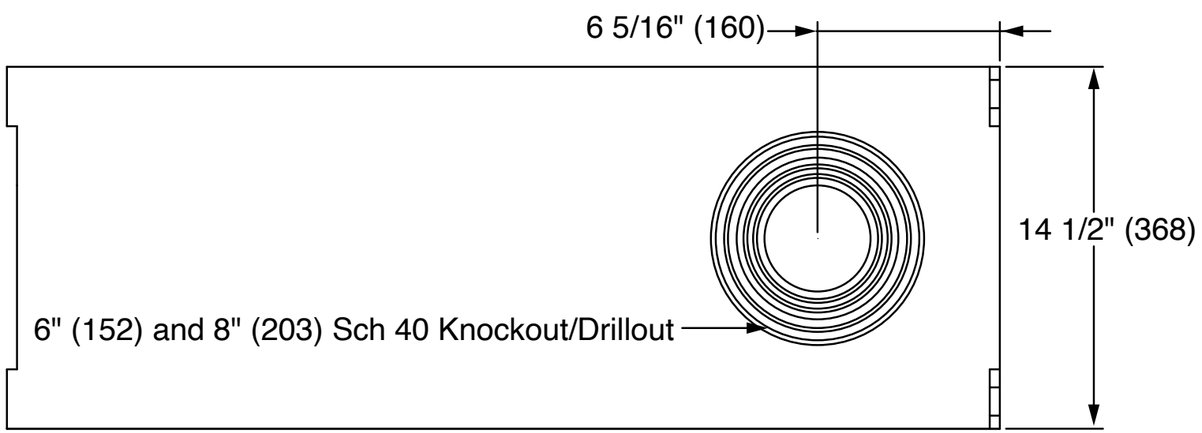
Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.

Regularly furnished with boltless PowerLok® securing device.

SEE THE 9899 SYSTEM HERE:

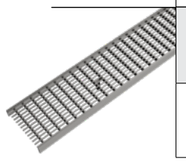






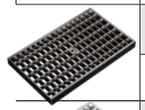
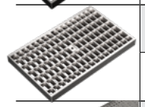
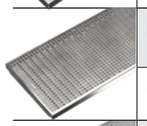
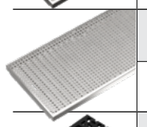
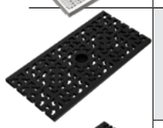
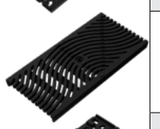
Load Class A: Light Duty

EN1433 Class A - 3,500 lbs - 70 psi

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	9890-847-SSADA1G	1m	28.6	238.2	A	✓	✓	✓	✓	X	X
	Mesh Stainless Steel	9890-847-SSADA.5G	.5m	14.5	131.6	A	✓	✓	✓	✓	X	X

Load Class C: Heavy Duty

EN1433 Class C - 56,000 lbs. 1,162 psi

Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Galvanized Steel Mesh	9890-805-GM1G	1m	29.5	192	C	X	X	✓	✓	✓	X
	Galvanized Steel Mesh	9890-805-GM.5G	.5m	29.5	192	C	X	X	✓	✓	✓	X
	Stainless Steel Mesh	9890-830-SSM1G	1m	29.5	192	C	X	X	✓	✓	✓	X
	Stainless Steel Mesh	9890-830-SSM.5G	.5m	29.5	192	C	X	X	✓	✓	✓	X
	Perforated Galvanized Steel Mesh	9890-811-GP1G	1m	30.9	64.8	C	✓	✓	✓	X	✓	X
	Perforated Galvanized Steel Mesh	9890-813-GP.5G	.5m	15	31.9	C	✓	✓	✓	X	✓	X
	Perforated Stainless Steel Mesh	9890-865-SSP1G	1m	30.9	64.8	C	✓	✓	✓	✓	✓	X
	Perforated Stainless Steel Mesh	9890-866-SSP.5G	.5m	15	31.9	C	✓	✓	✓	✓	✓	X
	Mosaic Ductile Iron	9890-879-MD	.5m	47.3	46.97	C	✓	✓	✓	X	✓	X
	Wave Ductile Iron	9890-880-IW	.5m	48	77.77	C	✓	✓	✓	✓	✓	X
	Decorative Ductile Iron	9890-881-ID	.5m	47	54.6	C	✓	✓	✓	✓	✓	X

Load Class E: Heavy Duty

EN1433 Class E - 135,000 lbs. - 2,788 psi

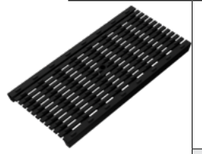
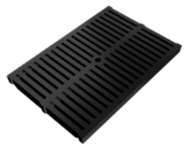
Grate	Material	Grate Fig. Number	Length	Weight lbs.	Open Area per Sq. In.	Load Class	ADA	Heel-Proof	Bicycle	Slip Resistance	HS20	FAA
	Longitudinal Slotted Ductile Iron	9890-878-MADA.5G	.5m	35	61.85	*E	✓	✓	✓	✓	✓	X
	Slotted Ductile Iron	9890-861-M	.5m	48	128.71	*E	X	X	✓	✓	✓	X

FIGURE NO. 9833

APPLICATIONS:

POOLS / PLAZAS & PEDESTRIAN AREAS | ADA-COMPLIANT
COMMERCIAL OFFICE / HOSPITALITY & HEALTHCARE

INTEGRAL METAL EDGE RAIL

9833

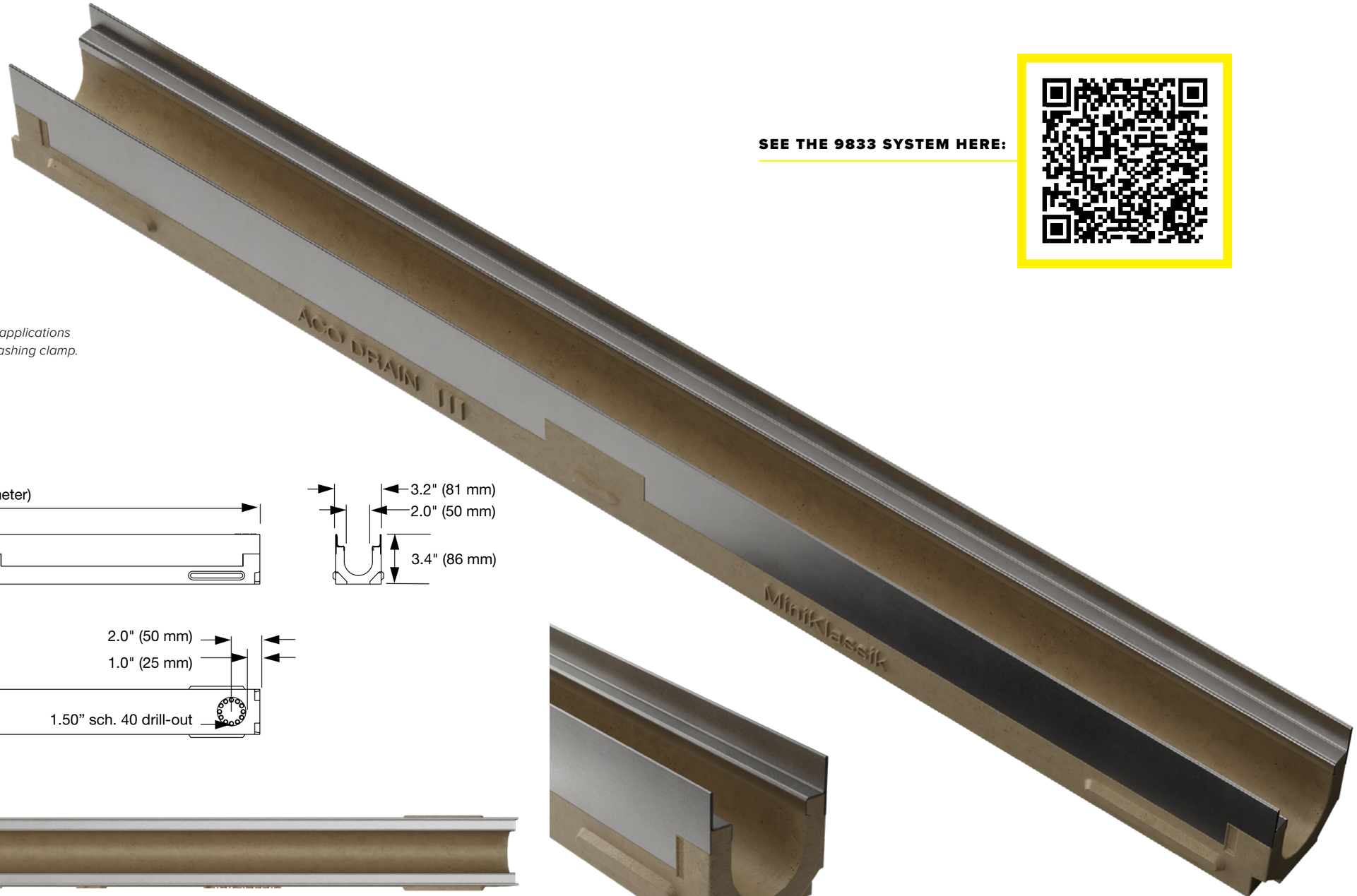
3” Wide No Grade Narrow Trench Drains

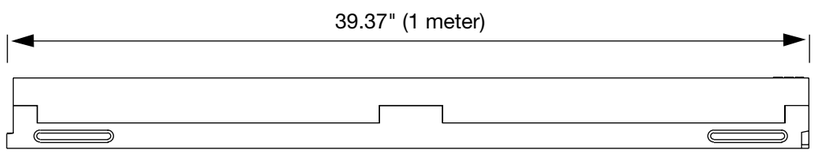
FEATURES

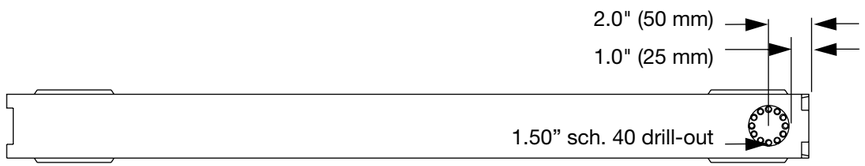
- Integral galvanized steel rail
- Optional stainless steel rail
- 0.5% pre-sloped and neutral channels (see chart next page for invert depths)
- Load ratings up to and including E (135,000 lbs.)
- Concrete finisher friendly with straight edge
- QuickLok® feature - no bolts to remove when cleaning out trench drain
- Built-in knockouts for outlets every 5 channel sections (see diagram next page)

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.

SEE THE 9833 SYSTEM HERE:







SMITH TRENCH DRAIN

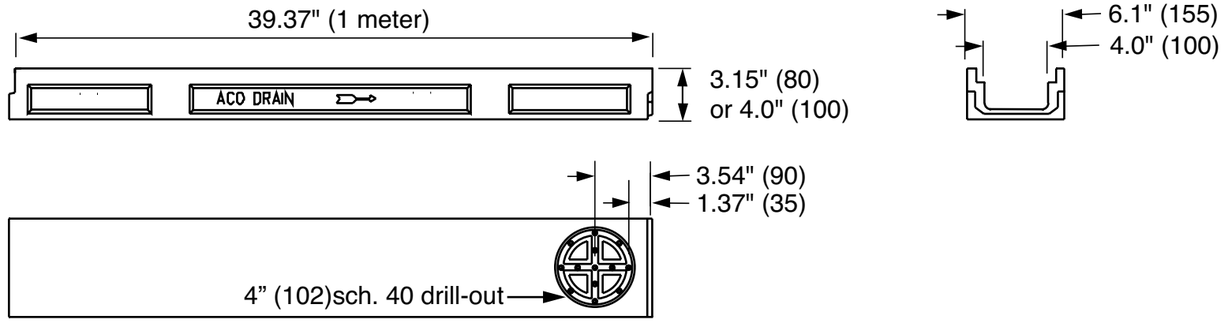
FIGURE NO. 9832

APPLICATIONS:

POOLS / PLAZAS & PEDESTRIAN AREAS







9832

6” Wide Non-Sloped Shallow Trench Drains

FEATURES:

- 1 meter (3.28’) precast polyester polymer concrete construction
- High-strength, lightweight channels feature interlocking design
- Groove profile for ease of installation and alignment
- Non-sloping bottom
- Supplied with secured grate per specification

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.

SEE THE 9832 SYSTEM HERE:

SMITH
TRENCH
DRAIN

APPLICATIONS:

PARKING GARAGES & LOADING DOCKS | POOLS / PLAZAS & PEDESTRIAN AREAS | ADA-COMPLIANT COMMERCIAL OFFICE / HOSPITALITY & HEALTHCARE

INTEGRAL DUCTILE IRON EDGE RAIL



9877



9878



9879



FIGURE NO. 9877

INTEGRAL DUCTILE IRON EDGE RAIL

9877

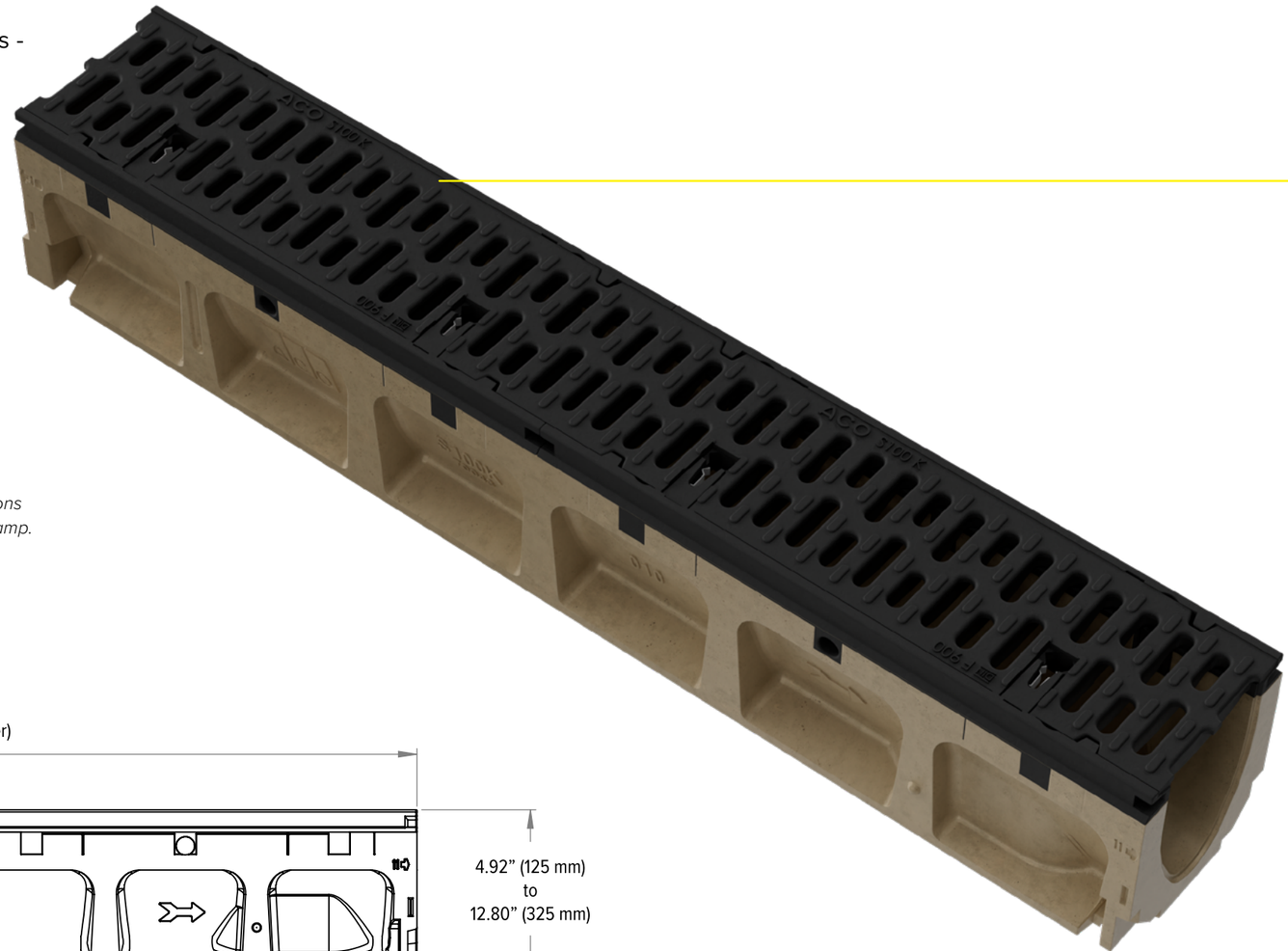
6” Wide Pre-Sloped Trench Drains with Integral Ductile Iron Edge Rail for Extra Heavy Applications - PowerDrain®

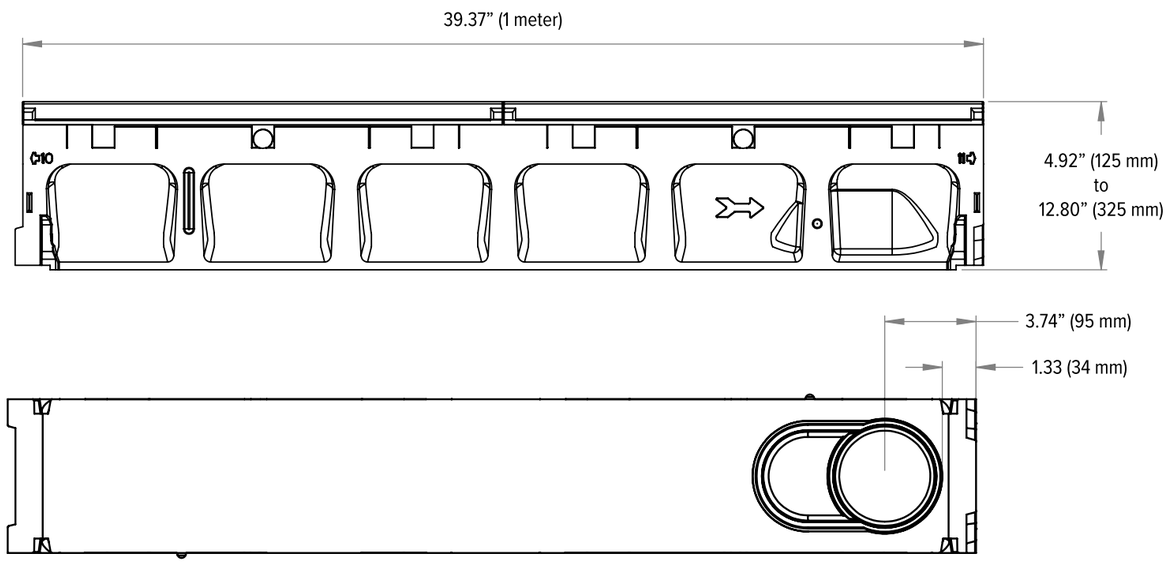
FEATURES

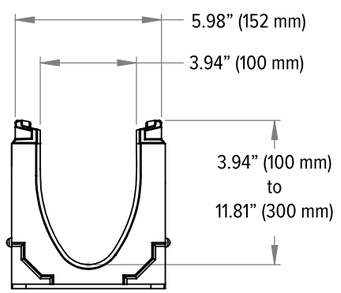
- The 9877 is the extra heavy duty version of the 9895
- 0.5% pre-sloped channels and non-sloping channels
- Includes ductile iron frame and grate
- Grating options include ADA and bicycle safe
- Frame and grate designed to prevent longitudinal and lateral movement
- End frames terminate the ends of each run for superior structural integrity

Regularly furnished with boltless PowerLok® securing device.

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.







9877-SLG (Class F)

Slotted Ductile Iron

AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	13
OPEN AREA (PER SQ. IN.):	14.1
ADA:	No
HEEL-PROOF:	No
BICYCLE:	No
SLIP RESISTANCE:	22.6
HS2O:	Yes
FAA:	Yes



9877-ADAG (Class F)

Longitudinal Ductile Iron

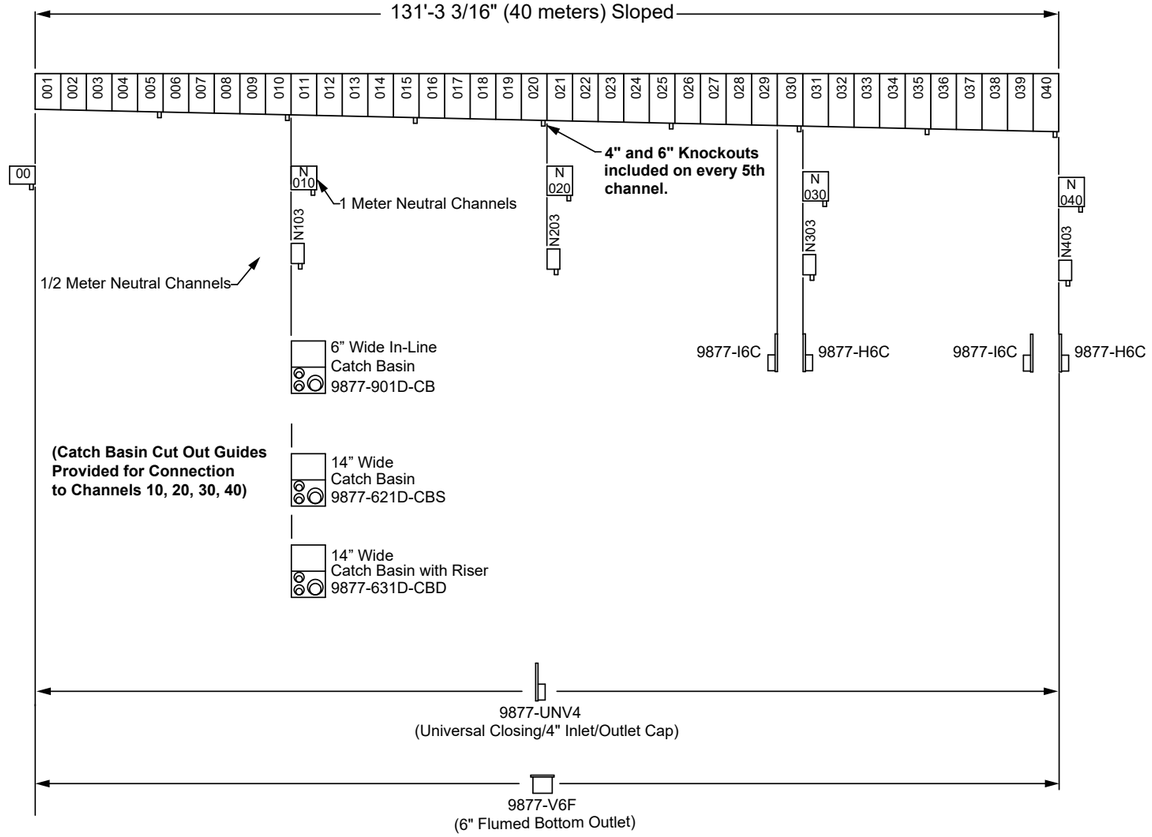
AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	12.3
OPEN AREA (PER SQ. IN.):	22.5
ADA:	Yes
HEEL-PROOF:	Yes
BICYCLE:	Yes
SLIP RESISTANCE:	25.8
HS2O:	Yes
FAA:	Yes

FIGURE NO. 9877

INTEGRAL DUCTILE IRON EDGE RAIL







SEE THE 9877 SYSTEM HERE:

9878

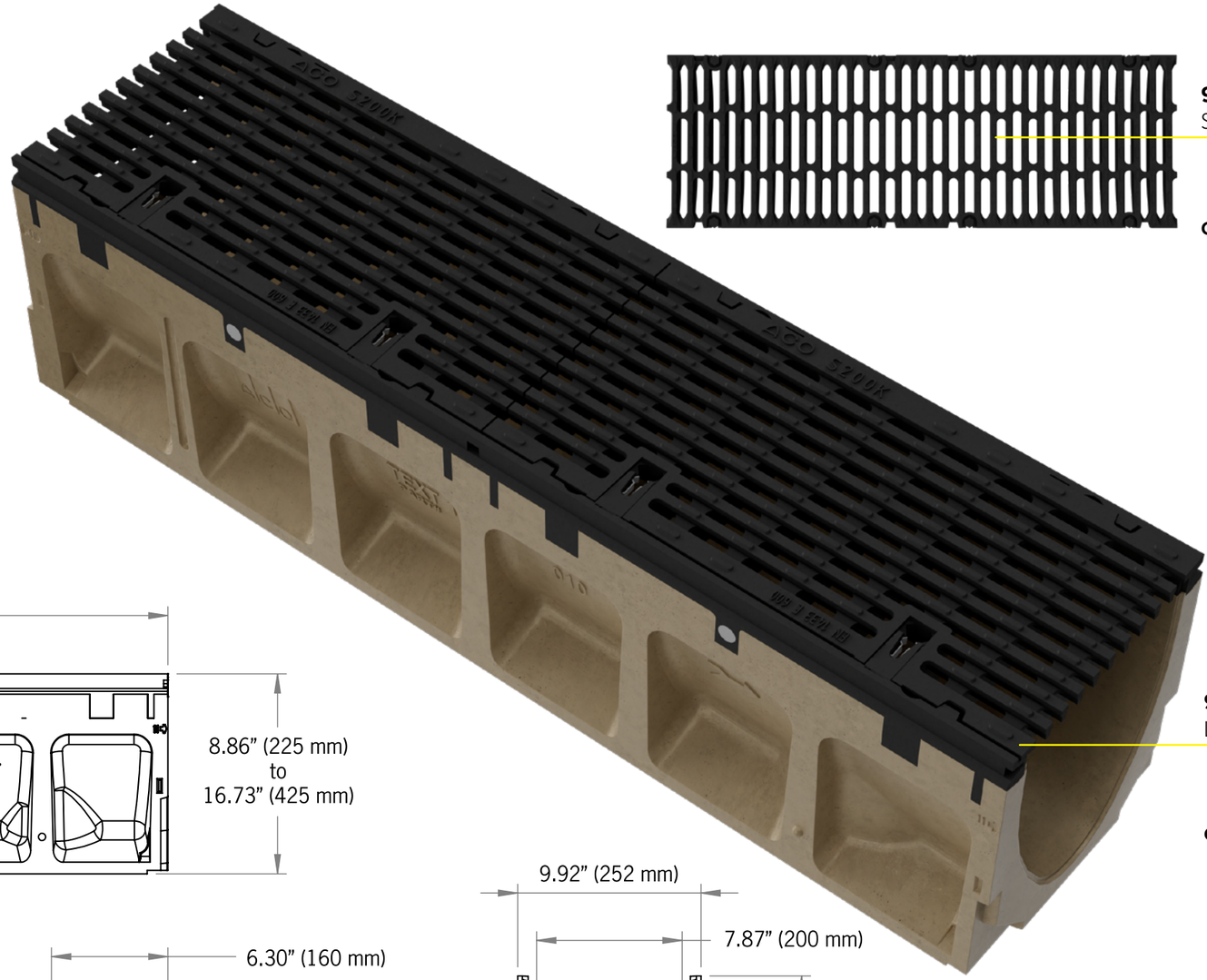
10” Wide Pre-Sloped Trench Drains with Integral Ductile Iron Edge Rail for Extra Heavy Applications - PowerDrain®

FEATURES

- Up to 40 (1 meter) sloped channel sections and (1 meter and 1/2 meter) non-sloped channel sections
- Integral cast-in extra heavy duty Integral Ductile Iron Edge Rail
- Grates are secured with patented PowerLok® boltless locking system
- Three catch basin options—9878-902D, 9878-621D or 9878-631D
- Built-in slope of 0.5%
- ADA compliant

Regularly furnished with boltless PowerLok® securing device.

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.

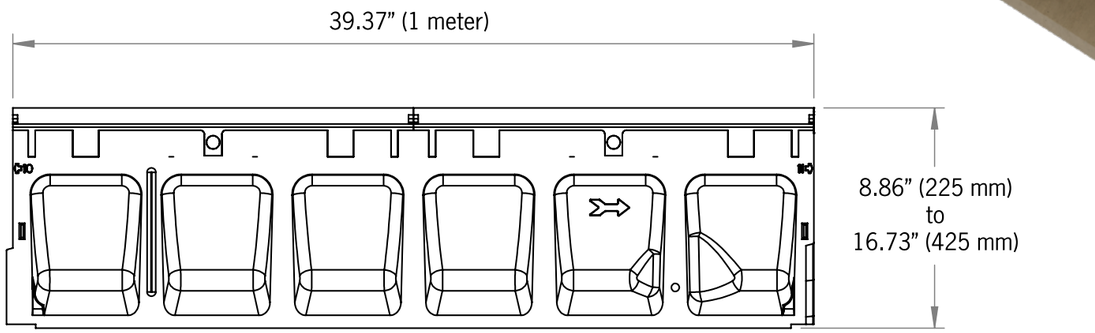


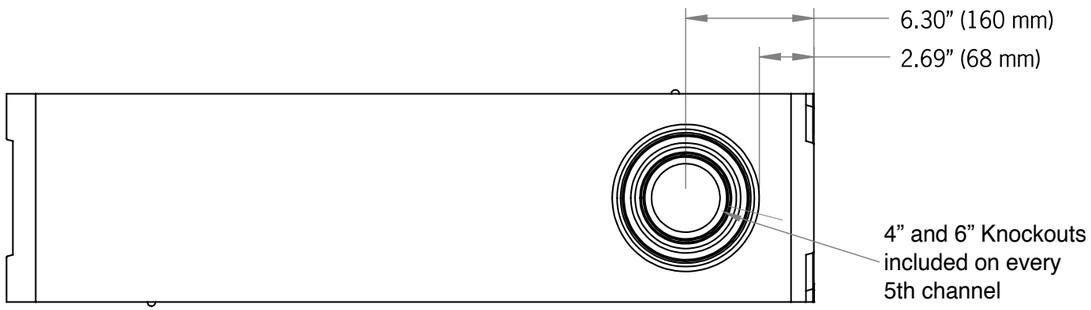
9878-SLG (Class F)
Slotted Ductile Iron

AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	31.7
OPEN AREA (PER SQ. IN.):	14.1
ADA:	No
HEEL-PROOF:	No
BICYCLE:	No
SLIP RESISTANCE:	22.6
HS2O:	Yes
FAA:	Yes

9878-ADAG (Class E)
Longitudinal Ductile Iron

AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	28
OPEN AREA (PER SQ. IN.):	22.5
ADA:	Yes
HEEL-PROOF:	Yes
BICYCLE:	Yes
SLIP RESISTANCE:	25.8
HS2O:	Yes
FAA:	Yes





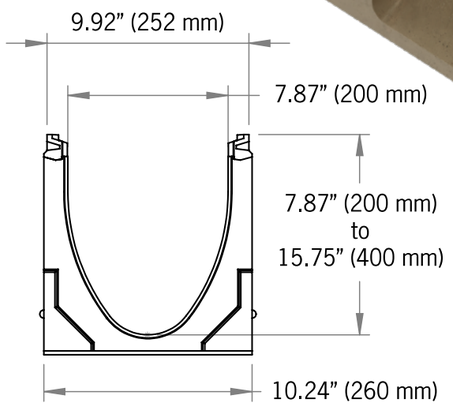
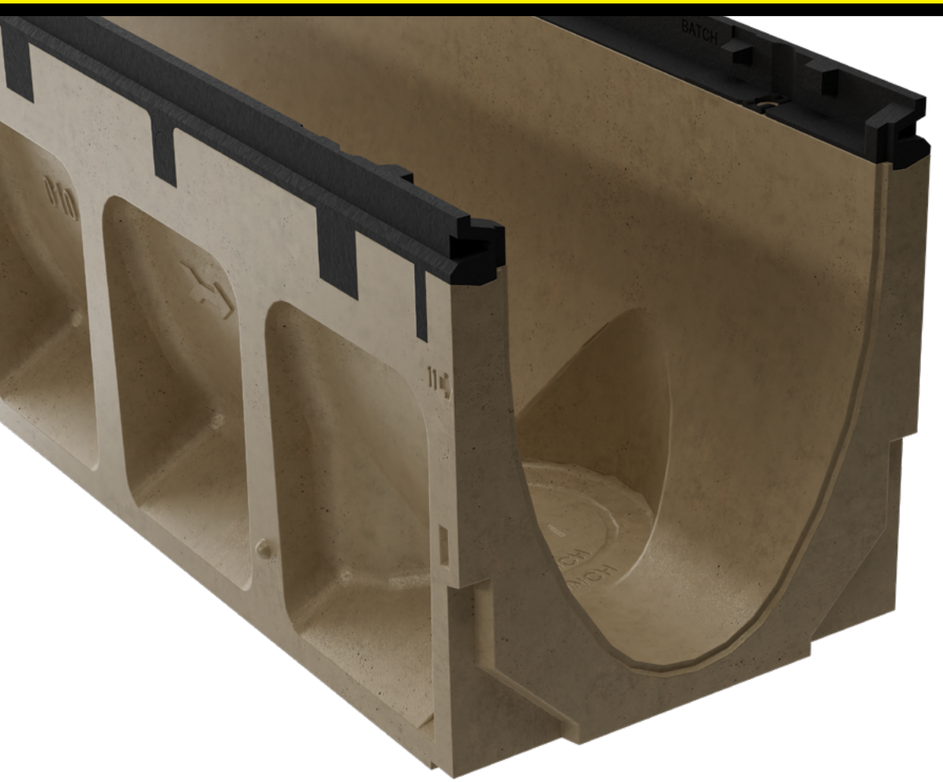
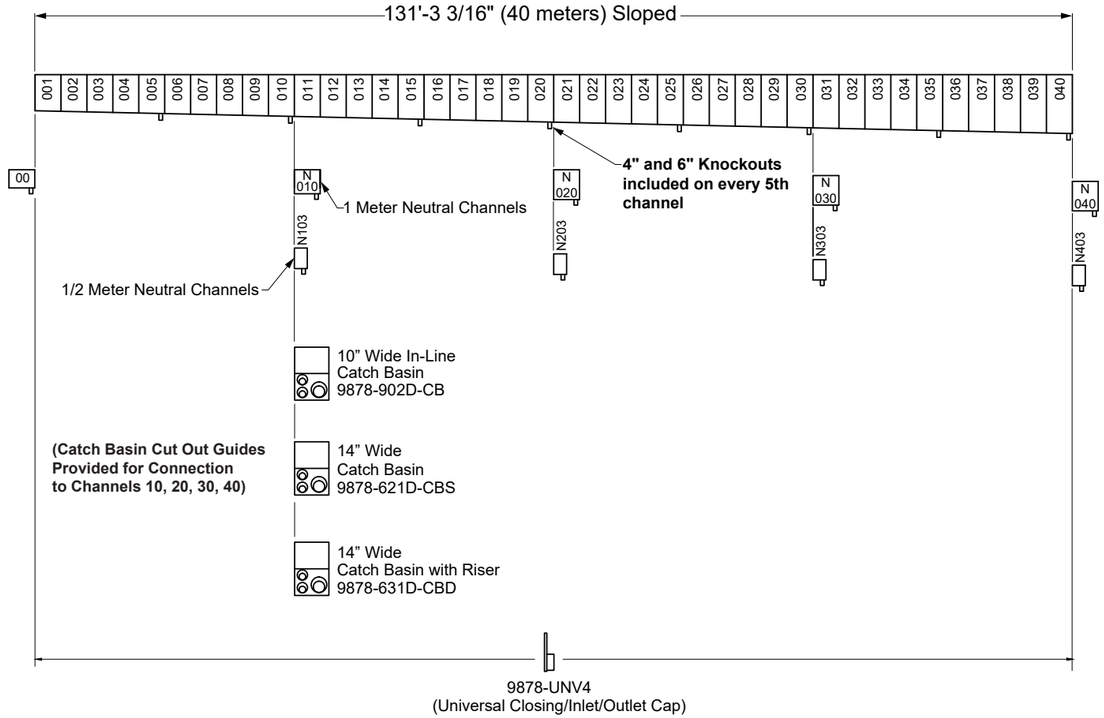


FIGURE NO. 9878

INTEGRAL DUCTILE IRON EDGE RAIL







SEE THE 9878 SYSTEM HERE:

FIGURE NO. 9879

INTEGRAL DUCTILE IRON EDGE RAIL

9879

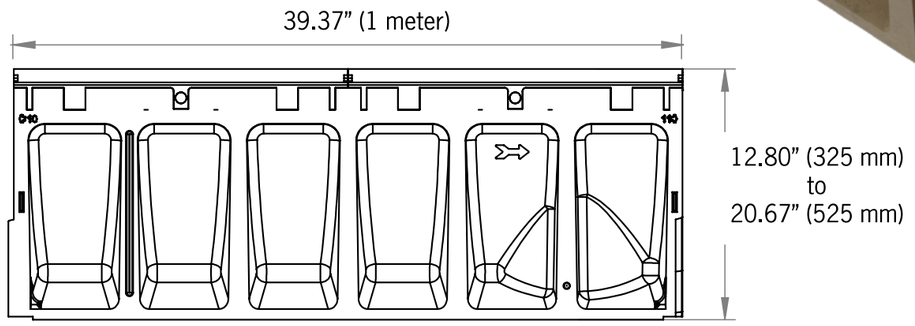
14” Wide Pre-Sloped Trench Drains with Integral Ductile Iron Edge Rail for Extra Heavy Duty Applications - PowerLok®

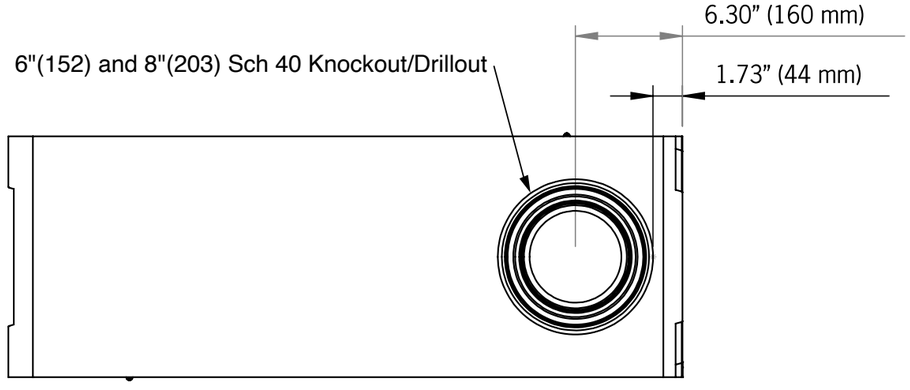
FEATURES

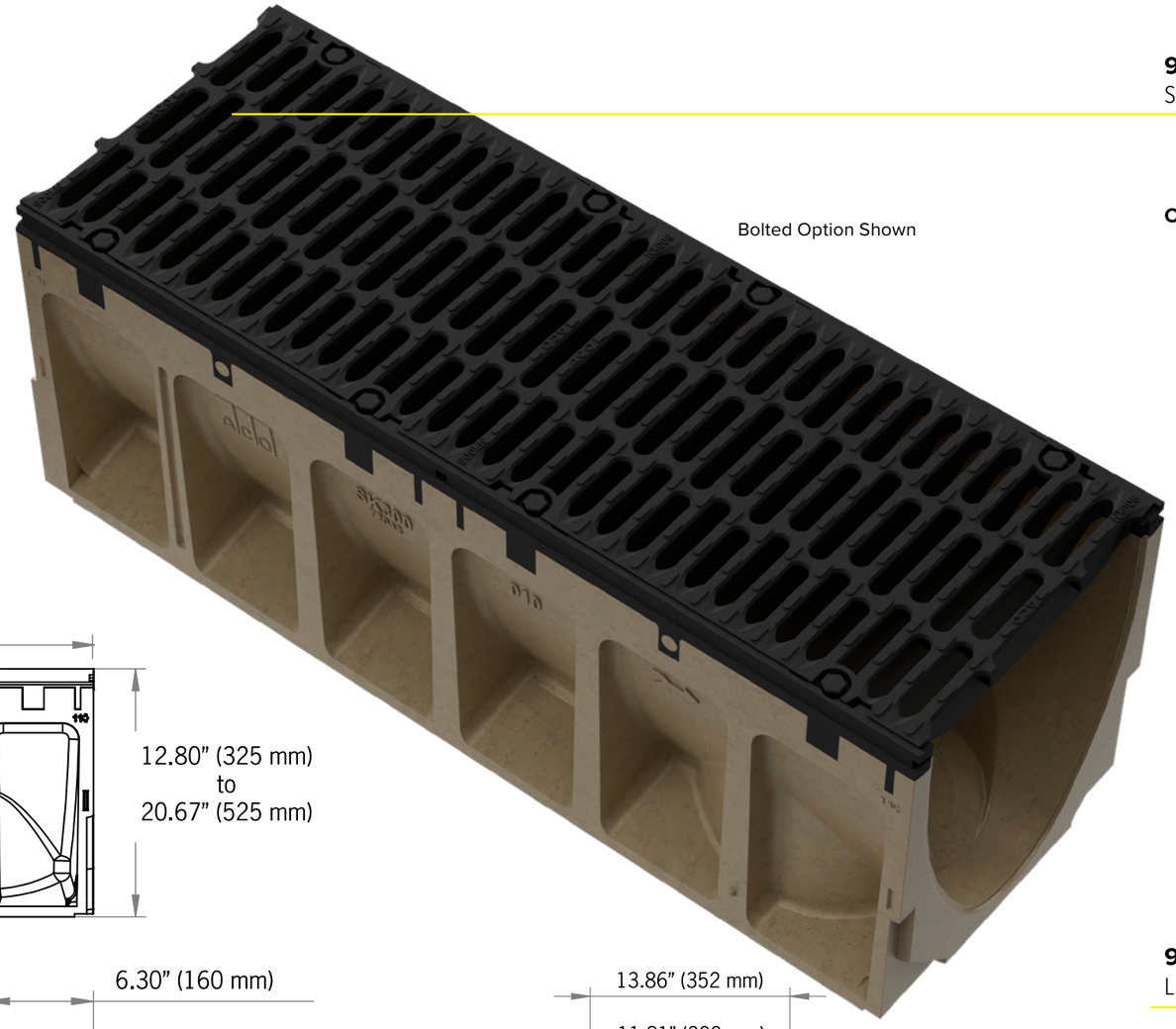
- A high capacity version of our 9877
- EN1433 Class F rated for 202,320 pound loads
- 0.5% Pre-sloped and non-sloping neutral sections
- The grate is secured with a PowerLok® boltless locking device
- Integral shunts built into the ductile frame and grate to prevent lateral movement
- Built-in vertical outlet sections
- ADA Grate

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.

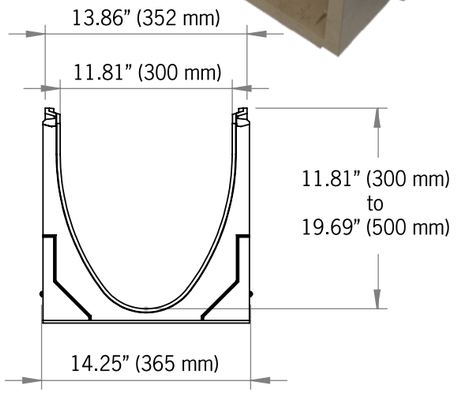
Regularly furnished with boltless PowerLok® securing device.







Bolted Option Shown



9879-SLG (Class F)

Slotted Ductile Iron

AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	53.5
OPEN AREA (PER SQ. IN.):	14.1
ADA:	No
HEEL-PROOF:	No
BICYCLE:	No
SLIP RESISTANCE:	22.6
HS2O:	Yes
FAA:	Yes

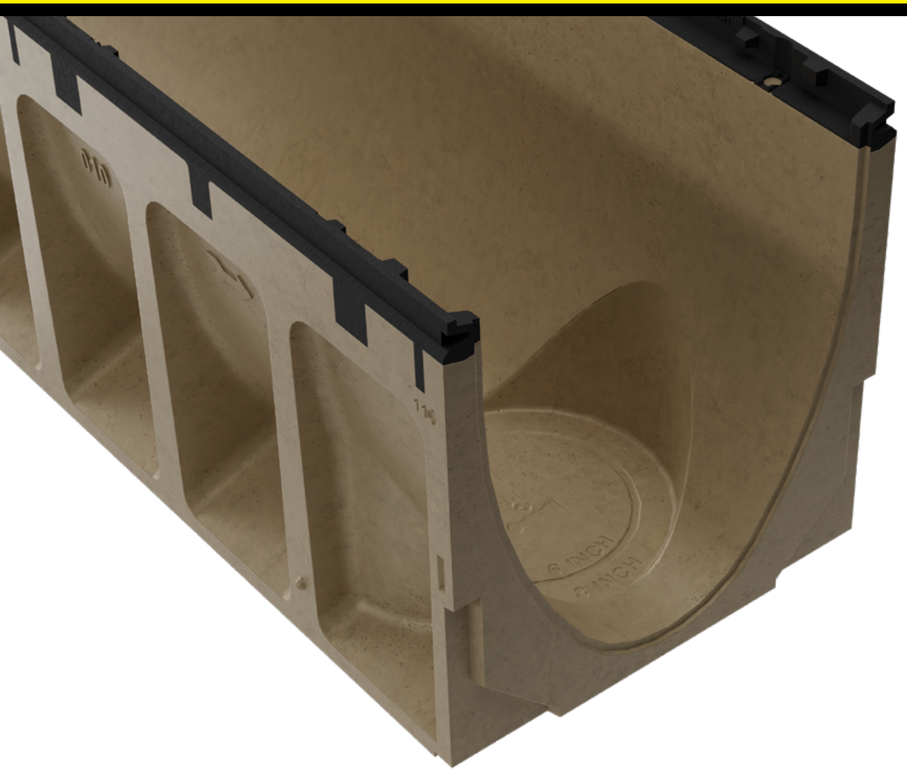
9879-ADAG (Class E)

Longitudinal Ductile Iron

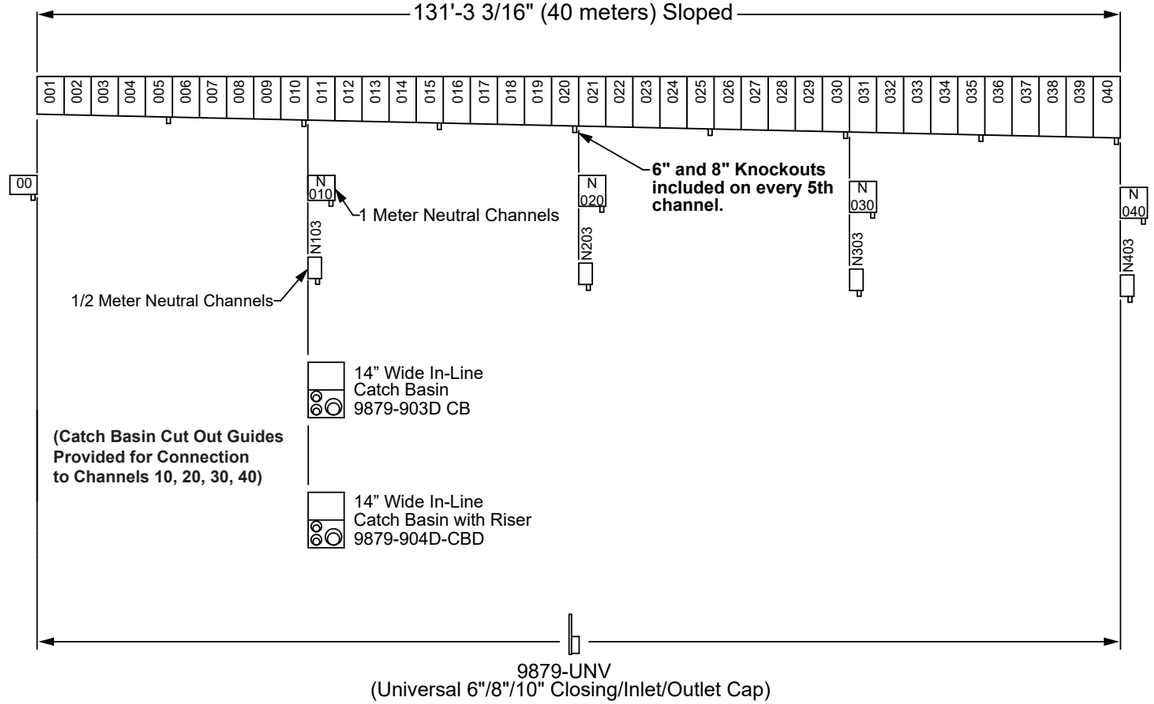
AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	64
OPEN AREA (PER SQ. IN.):	22.5
ADA:	Yes
HEEL-PROOF:	Yes
BICYCLE:	Yes
SLIP RESISTANCE:	25.8
HS2O:	Yes
FAA:	Yes

FIGURE NO. 9879

INTEGRAL DUCTILE IRON EDGE RAIL







SEE THE 9878 SYSTEM HERE:

SMITH
TRENCH
DRAIN

APPLICATIONS:

PARKING GARAGES & LOADING DOCKS | POOLS / PLAZAS & PEDESTRIAN AREAS | ADA-COMPLIANT COMMERCIAL OFFICE / HOSPITALITY & HEALTHCARE

INTEGRAL DUCTILE IRON EDGE RAIL



9877



9878



9879



FIGURE NO. 9805

INTEGRAL DUCTILE IRON EDGE RAIL

9805

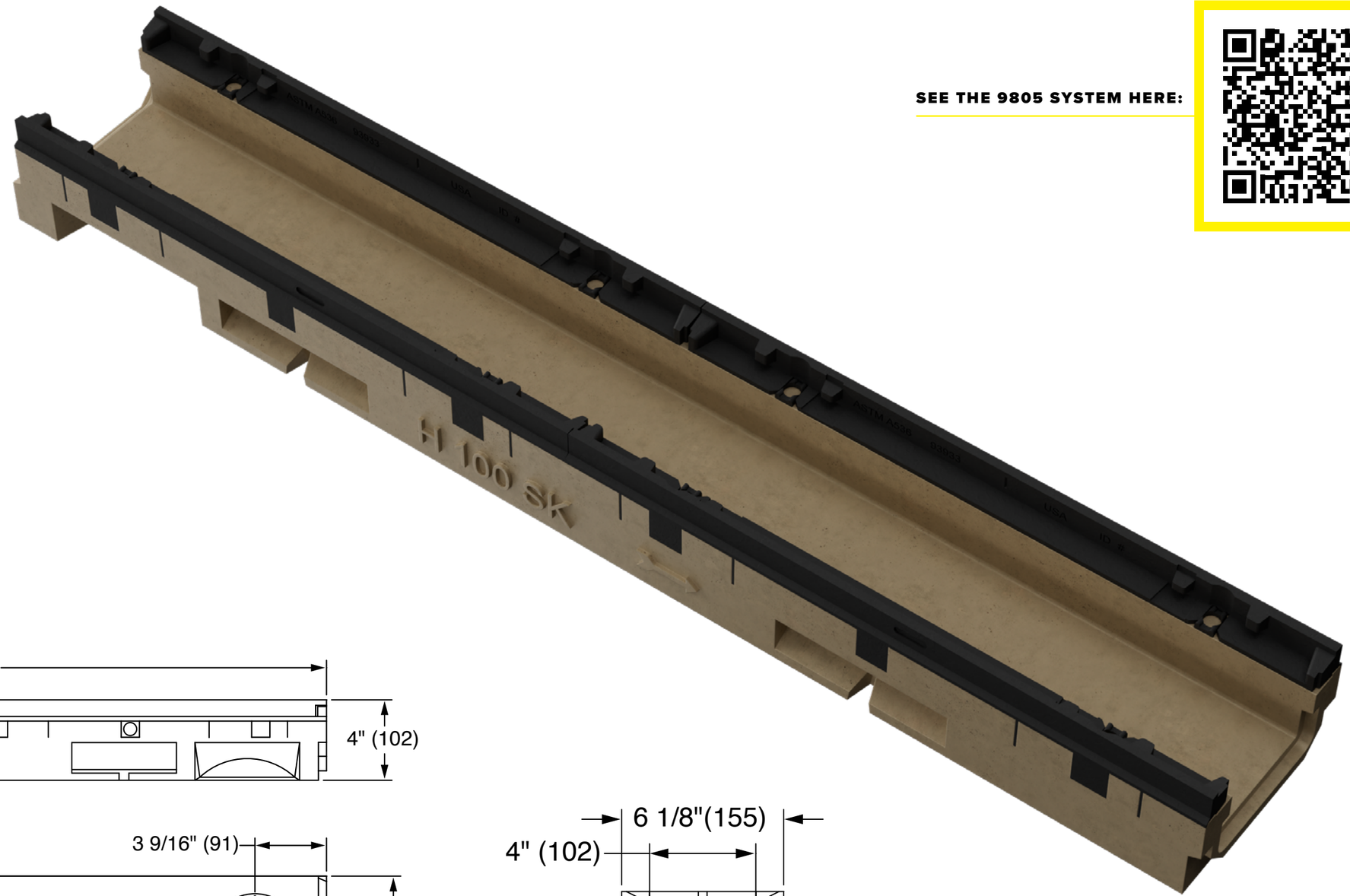
6” Wide Non-Sloped Trench Drains with Integral Ductile Iron Edge Rail for Extra Heavy Applications - PowerDrain® Figure 9805

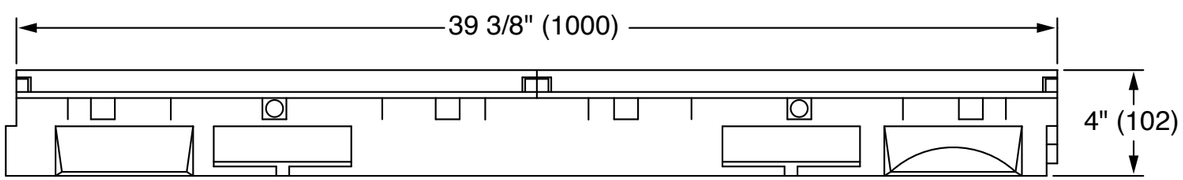
FEATURES:

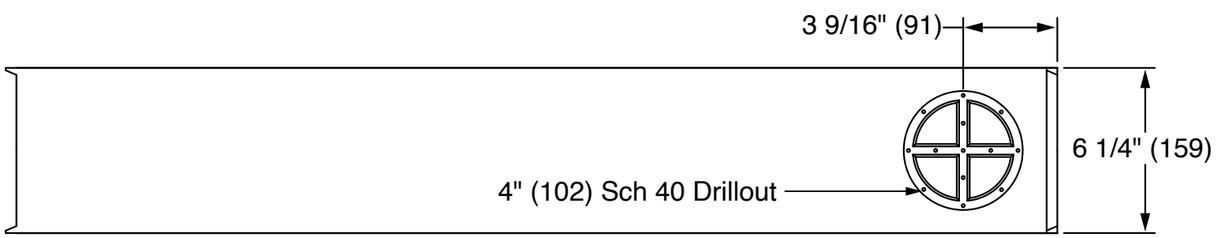
- 1 meter (3.28’) precast polyester concrete channel construction
- Interlocking design with no slope
- Integral Integral Ductile Iron Edge Rail
- 4” internal width, supplied with secured ductile iron slotted or ADA grates *See note
- Designed for on-grade applications only; no provisions for flashing flange or clamp

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp. Regularly furnished with boltless PowerLok® securing device. Contact local Jay R. Smith Mfg. Co. manufacturer’s rep or Jay R. Smith Mfg. Co. Trench Drain Team for grate options

SEE THE 9805 SYSTEM HERE:







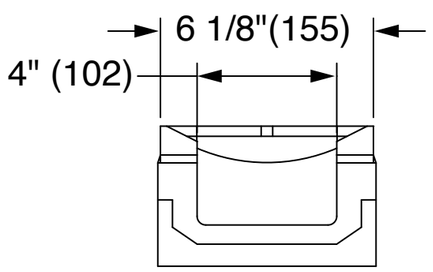
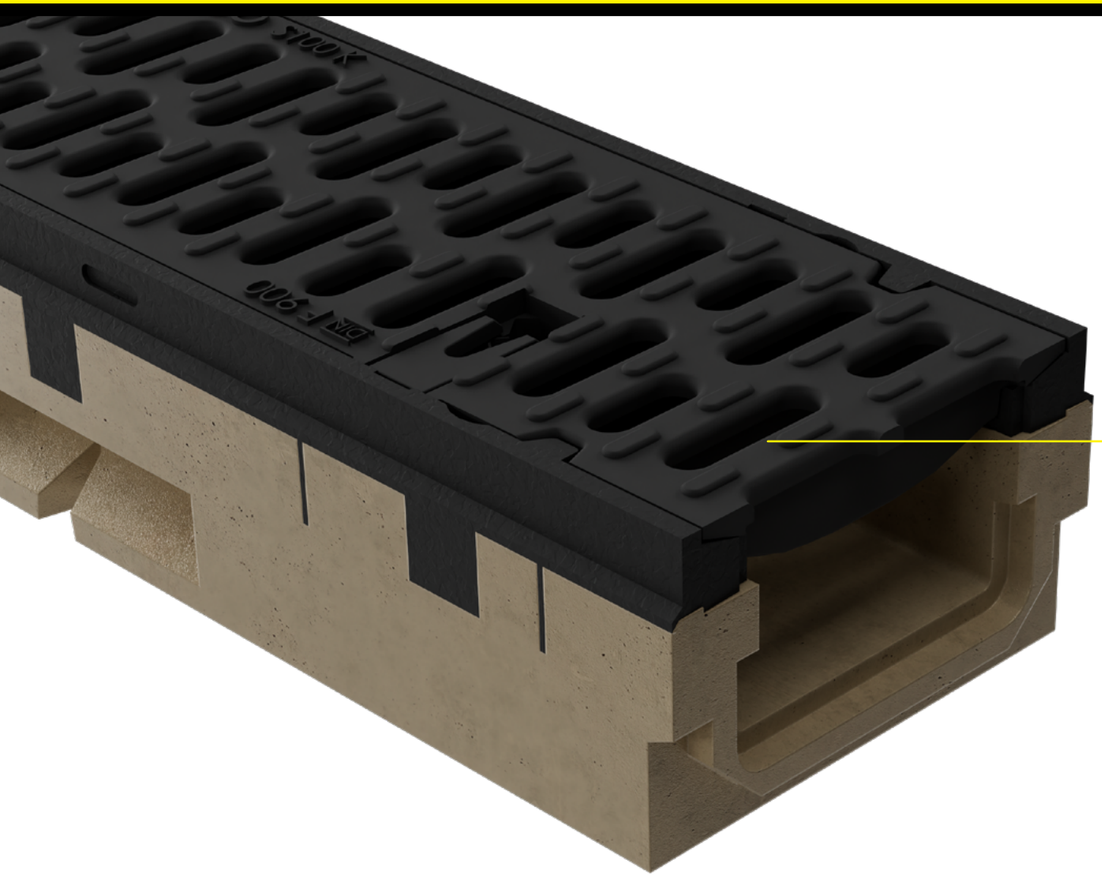


FIGURE NO. 9805

INTEGRAL DUCTILE IRON EDGE RAIL



9805-SLG (Class F)
Slotted Ductile Iron

AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	13
OPEN AREA (PER SQ. IN.):	14.1
ADA:	No
HEEL-PROOF:	No
BICYCLE:	No
SLIP RESISTANCE:	22.6
HS2O:	Yes
FAA:	Yes



9805-ADAG (Class E)
Longitudinal Ductile Iron

AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	12.3
OPEN AREA (PER SQ. IN.):	22.5
ADA:	Yes
HEEL-PROOF:	Yes
BICYCLE:	Yes
SLIP RESISTANCE:	25.8
HS2O:	Yes
FAA:	Yes



FIGURE NO. 9806

9806

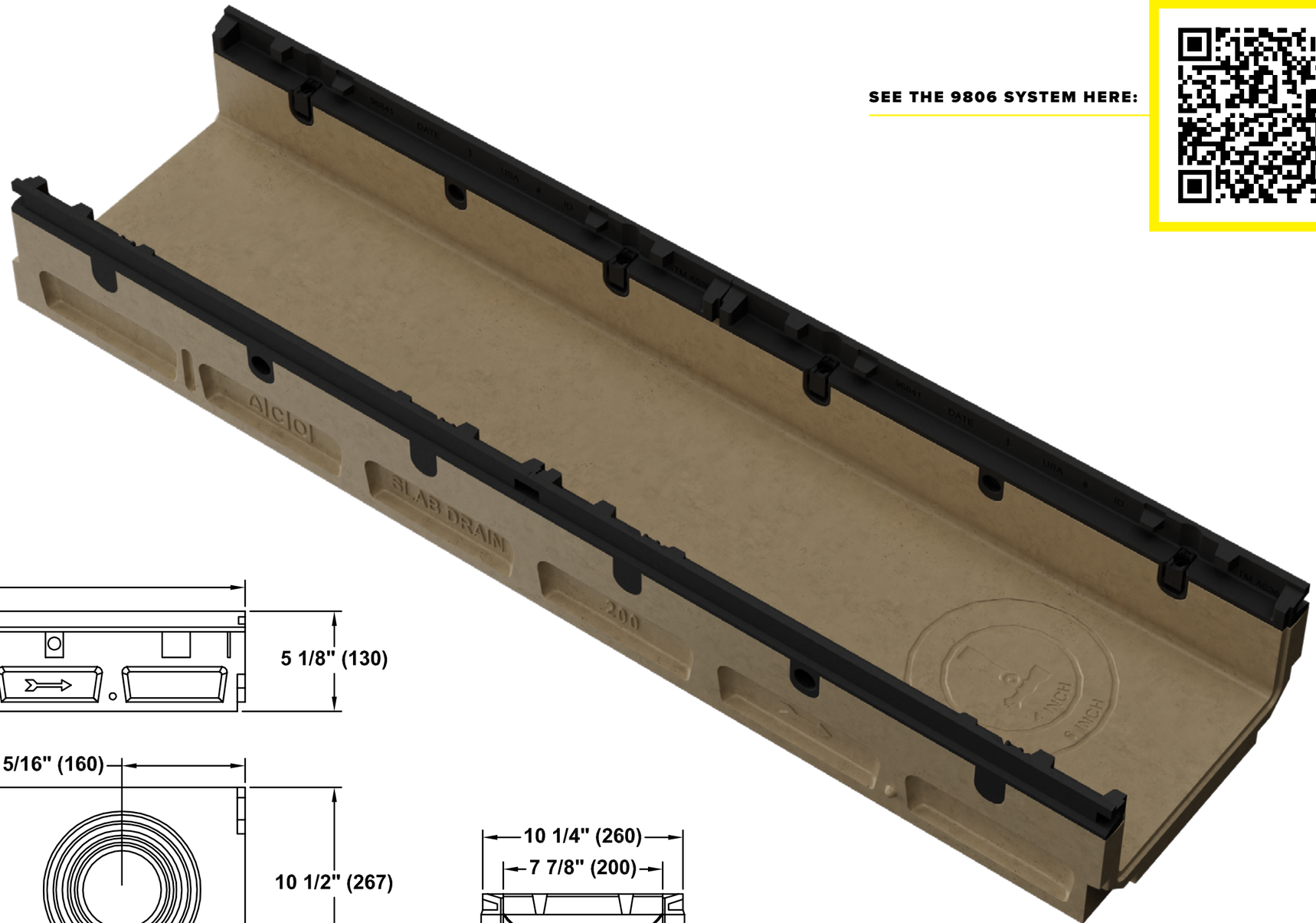
10” Wide Shallow Non-Sloped Trench Drain with Integral Metal Edge Rail - SlabDrain

FEATURES

- 3.94” invert depth for applications in shallow areas
- 8” inside width
- 4” and 6” bottom knockouts on each channel section
- Grates are secured with patented QuickLok® boltless locking system
- Galvanized edge rail regularly furnished; stainless steel rail option available

Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.

SEE THE 9806 SYSTEM HERE:



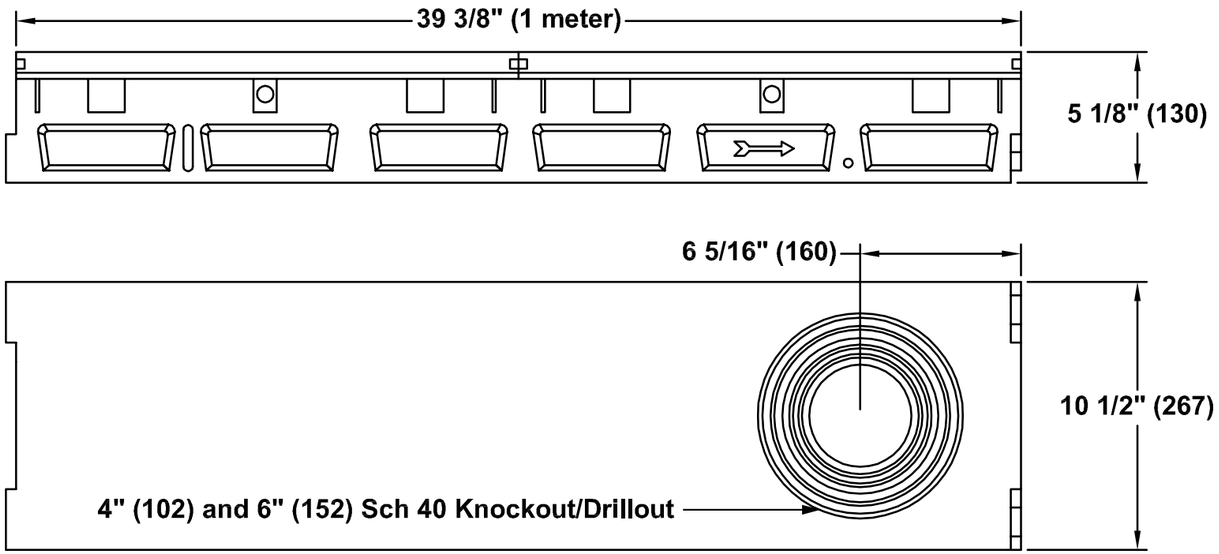


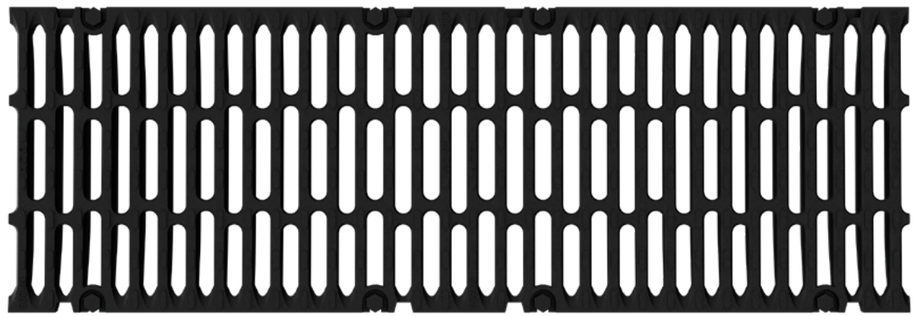
FIGURE NO. 9806

INTEGRAL DUCTILE IRON EDGE RAIL



9806-ADAG (Class E)
Longitudinal Ductile Iron

AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	31.7
OPEN AREA (PER SQ. IN.):	22.5
ADA:	Yes
HEEL-PROOF:	Yes
BICYCLE:	Yes
SLIP RESISTANCE:	25.8
HS2O:	Yes
FAA:	Yes



9806-SLG (Class F)
Slotted Ductile Iron

AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	28
OPEN AREA (PER SQ. IN.):	14.1
ADA:	No
HEEL-PROOF:	No
BICYCLE:	No
SLIP RESISTANCE:	22.6
HS2O:	Yes
FAA:	Yes



FIGURE NO. 9807

INTEGRAL DUCTILE IRON EDGE RAIL

9807

14” Wide Shallow Trench Drains with Integral Ductile Iron Edge Rail for Extra Heavy Applications PowerDrain®

FEATURES

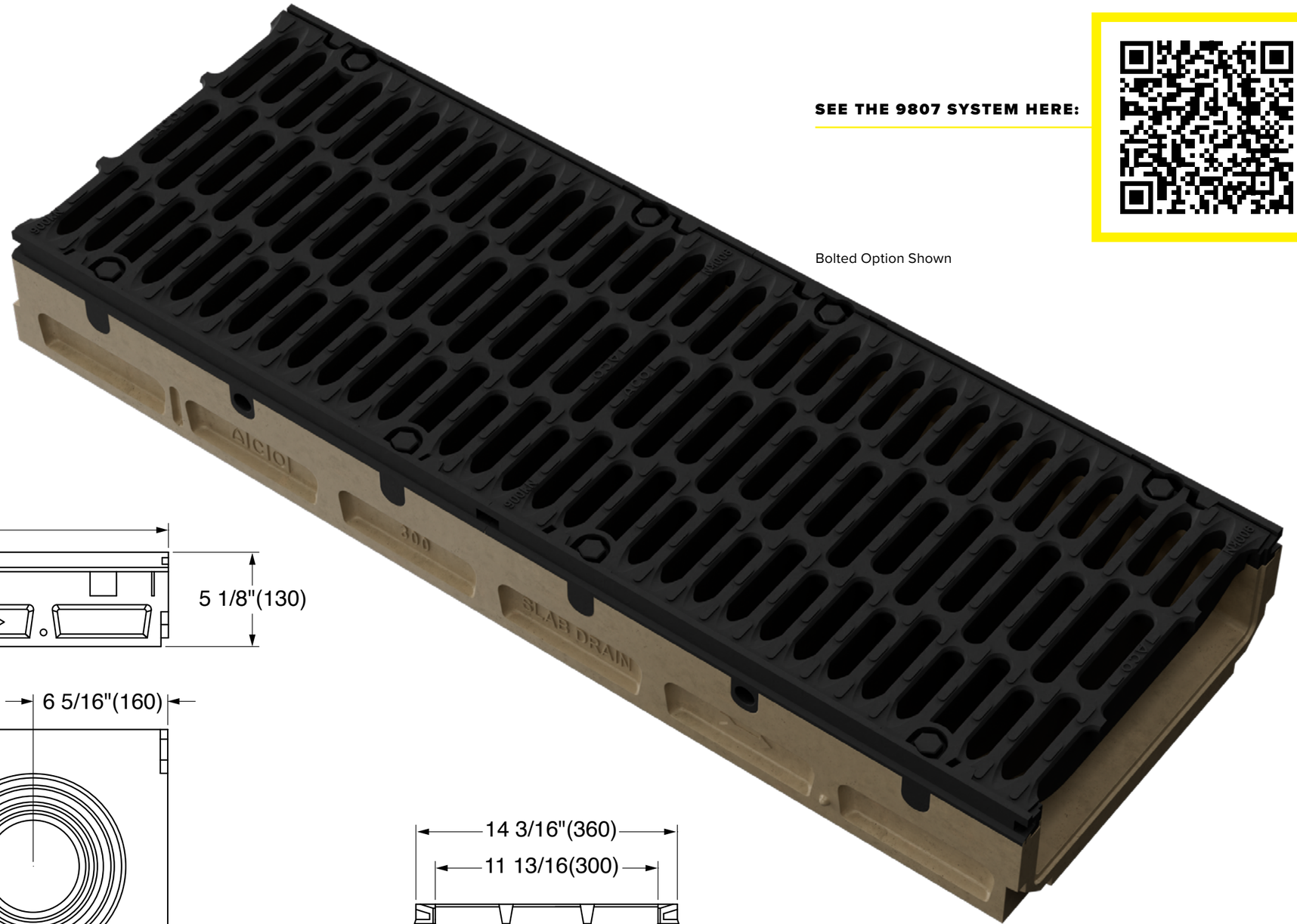
- 14” wide, polyester polymer concrete construction
- Shallow, non-sloping channels
- 1 meter channels can be assembled in any length
- Integral Integral Integral Ductile Iron Edge Rail allow for extra heavy duty applications.
- Supplied with secured ductile iron slotted grates

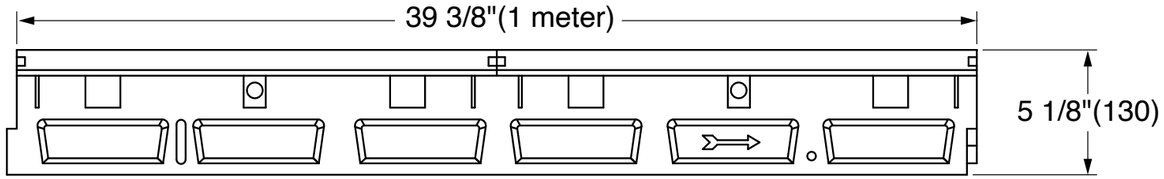
Note: This trench drain system is designed for “on grade applications only” as there are no provisions for a flashing flange or flashing clamp.

Regularly furnished with boltless PowerLok® securing device.

SEE THE 9807 SYSTEM HERE:

Bolted Option Shown





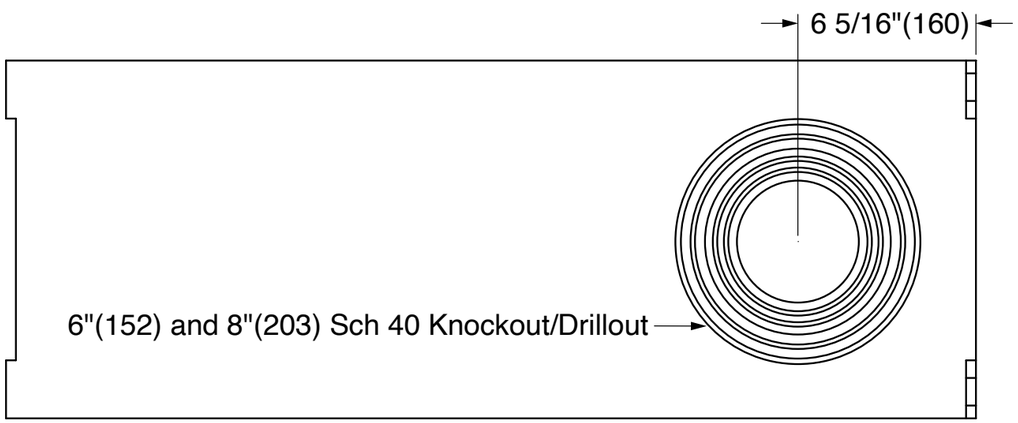


FIGURE NO. 9807

INTEGRAL DUCTILE IRON EDGE RAIL



9807-SLG (Class F)
Slotted Ductile Iron

AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	53.5
OPEN AREA (PER SQ. IN.):	14.1
ADA:	No
HEEL-PROOF:	No
BICYCLE:	No
SLIP RESISTANCE:	22.6
HS2O:	Yes
FAA:	Yes

9807-ADAG (Class E)
Longitudinal Ductile Iron

AVAILABLE LENGTHS:	1/2 Meter
WEIGHT (LBS):	64
OPEN AREA (PER SQ. IN.):	22.5
ADA:	Yes
HEEL-PROOF:	Yes
BICYCLE:	Yes
SLIP RESISTANCE:	25.8
HS2O:	Yes
FAA:	Yes



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Slip-Resistant - ACO has tested grate patterns for slip resistance using the widely accepted pendulum test

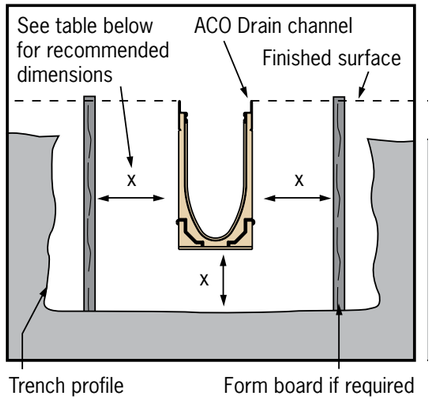
Pendulum test - A pendulum is swung over a wet surtace and measures surtace trictional properties. lest results are given a BPN value - typically values in excess of 24 would be used (24 and under is regarded as high slip and skid potential).

Excavate trench to accommodate drain system. Excavations must be made about the center line of proposed drainage run and catch basin.

Trench must be big enough to accommodate each of the following:

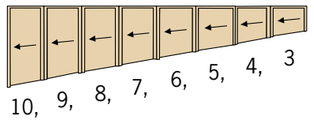
A. Channel/catch basin width and depth dimensions.

B. Concrete surround dimensions*.



C. For sloped systems, excavate base of trench to roughly follow fall of trench run.

Sloped system



Neutral system



NOTE: Check product literature for overall product depth. Add additional measurement for concrete surround from table at left.

Ensure loose material is removed from trench and base is well compacted.

Run string line, or laser, at finished surface level along full length of proposed trench run to ensure trench is installed to grade.

In concrete pavements ensure an allowance is made for expansion/isolation joints, if necessary, to allow movement due to thermal expansion/contraction.

Concrete Surround Dimensions* (x)

Load Cl	A	B	C	D	E	F
4" channel	4"	4"	6"	6"	8"	8"
8" channel	6"	6"	8"	8"	10"	10"
12" channel	8"	10"	10"	12"	12"	12"

* These dimensions are recommended minimums only, based on 4,000 psi concrete. Ground conditions will affect actual dimension required; engineering advice should be sought. Concrete surround should be same thickness as surrounding slab depth.

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⚠ **WARNING:** Cancer and Reproductive Harm - **www.P65Warnings.ca.gov**