

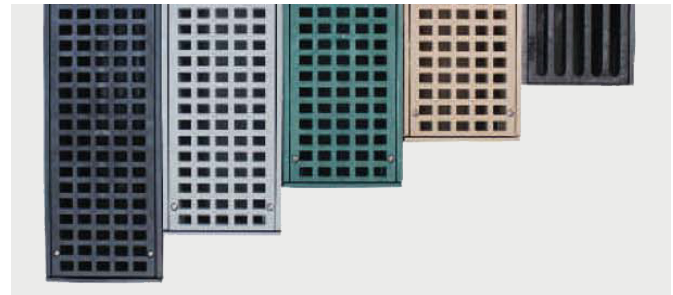
Polylok Trench Drain Catalog



Polylok® Drainage Products

Polylok 5" (125 mm) Heavy Duty Trench/Channel Drain System

Our trench/channel drain system is engineered to deliver the most flexibility in a heavy-duty design. The Polylok Heavy Duty Trench/Channel Drain is H-20 wheel load rated when cast in reinforced concrete. It offers a modular design with interlocking components to enable quick and easy connections. Each segment is 4' in length and comes with a reversible ADA compliant grate that can either be flat or allow for a 3/16" (4.8 mm) convex surface.



Our trench/channel drain design isn't just a great design, it's engineered with a smooth installation in mind. Each 4' (1.2 m) segment can be joined together or cut down to 12" (300 mm) increments. Each trench/channel drain segment has eight (8) anchor positions to allow rebar to be installed to prevent floating. There are two sections on each 4' (1.2 m) trench to allow 2'x4's (0.6 x 1.2 m) to be installed to aid in leveling and anchoring prior to pouring concrete. There are four drainage ports on each 4' (1.2 m) section to enable 3" (75 mm) and 4" (100 mm) SCH40 or 4" (100 mm) SDR35 connections. Each segment is shipped with #8 x 1 1/4" (31.8 mm) screws to fasten the grates to the channel and to secure the interlocking pieces, so there is no need to visit the hardware store.

Start using the Polylok Heavy Duty Trench/Channel Drain system and you will never use another one... we're sure of it!

4' (1.2 m) x 5" (125 mm) HD Trench/Channel Drain

Part Number	Description	Pkg. Qty.
PL-90860	4' (1.2 m) x 5" (125 mm) HD Trench/Channel Drain (Black)	6
PL-90860-G	4' (1.2 m) x 5" (125 mm) HD Trench/Channel Drain (Grey)	6
PL-90860-GR	4' (1.2 m) x 5" (125 mm) HD Trench/Channel Drain (Green)	6
PL-90860-TN	4' (1.2 m) HD Trench/Channel Drain (Tan)	6



Trench/Channel Tee

Part Number	Description	Pkg. Qty.
PL-90860-T	Trench/Channel Tee (Black)	8
PL-90860-TG	Trench/Channel Tee (Grey)	8
PL-90860-TGR	Trench/Channel Tee (Green)	8
PL-90860-TAN	Trench/Channel Tee (Tan)	8



Trench/Channel 90°

Part Number	Description	Pkg. Qty.
PL-90860-90	Trench/Channel 90° (Black)	8
PL-90860-90G	Trench/Channel 90° (Grey)	8
PL-90860-90GR	Trench/Channel 90° (Green)	8
PL-90860-90T	Trench/Channel 90° (Tan)	8



Open Outlet End Cap

Part Number	Description	Pkg. Qty.
PL-90860-OE	Open Outlet End Cap (Black)	10
PL-90860-OEG	Open Outlet End Cap (Grey)	10
PL-90860-OEGR	Open Outlet End Cap (Green)	10
PL-90860-OET	Open Outlet End Cap (Tan)	10



Closed End Cap

Part Number	Description	Pkg. Qty.
PL-90860-CE	Closed End Cap (Black)	10
PL-90860-CEG	Closed End Cap (Grey)	10
PL-90860-CEGR	Closed End Cap (Green)	10
PL-90860-CET	Closed End Cap (Tan)	10



4' (1.2m) x 5" (125 mm) Ductile Trench/Channel Drain

Part Number	Description	Pkg. Qty.
PL-90860-CI	4' (1.2 m) x 5" (125 mm) Ductile Trench/Channel Drain, Ductile Grate & Mounting Hardware (Black)	1



2' (0.6 m) x 5" (125 mm) Ductile Grates & Hardware

Part Number	Description	Pkg. Qty.
PL-90860-DIG	2' (0.6 m) x 5" (125 mm) Ductile Grate & Mounting Hardware (Black)	1



Corrugated Adapter

Part Number	Description	Pkg. Qty.
PL-90860-V44	4" (100 mm) Corrugated Adapter	40
PL-90860-A43	3" (75 mm) Corrugated Adapter	50



Heavy Duty Trench/Channel Drain

Polylok drains offer homeowners, architects, engineers, contractors and storm water managers a variety of superior surface drains for a myriad of applications. No matter what the situation requires, from residential to unlimited heavy industrial applications, our quality is unmatched. Polylok drains are engineered for simple one-step installations, minimizing contractor costs for installation. Polylok drains meet and exceed the ADA American Disabilities Act of 1990; Section 4.5.4. Polylok drains are a practical and cost-effective solution where runoff needs to be controlled or captured.

Features:

- Comes with all stainless steel hardware
- Easily installed and removed with one bolt
- 47 in² (1,175 mm²) of open area
- Rust resistant
- Load Class C
- Application: Heavy Duty/Commercial
- Application proof load: 310 psi
- Typical application standard: A-A6005



Ductile Grate Mounting Hardware

Features & Benefits for Easy Installation



Each channel has four (4) drainage ports that will accept 3" (75 mm) or 4" (100 mm) SCHD 40, or 4" (100 mm) SDR 35 pipe.

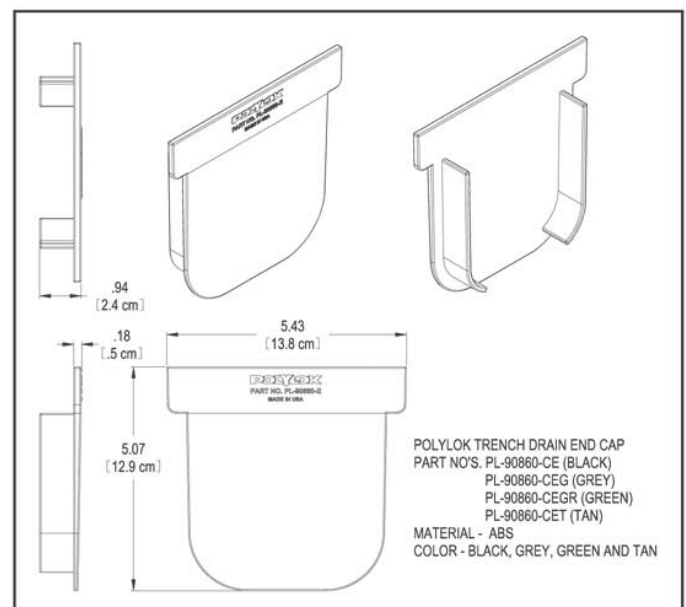
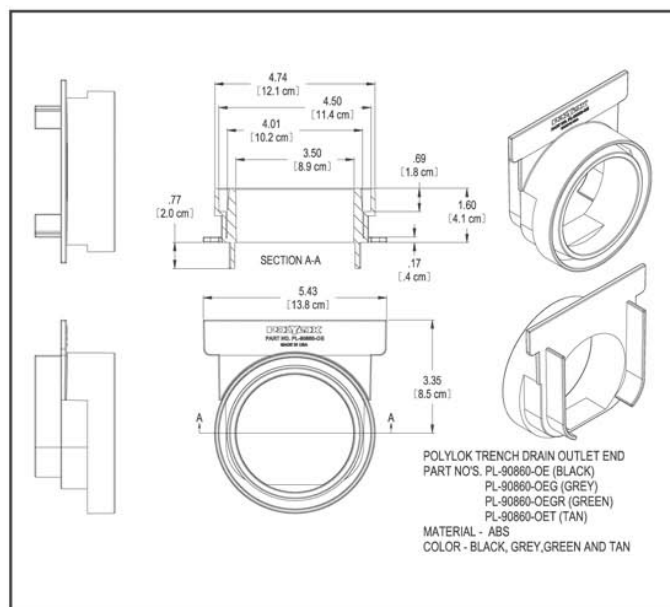
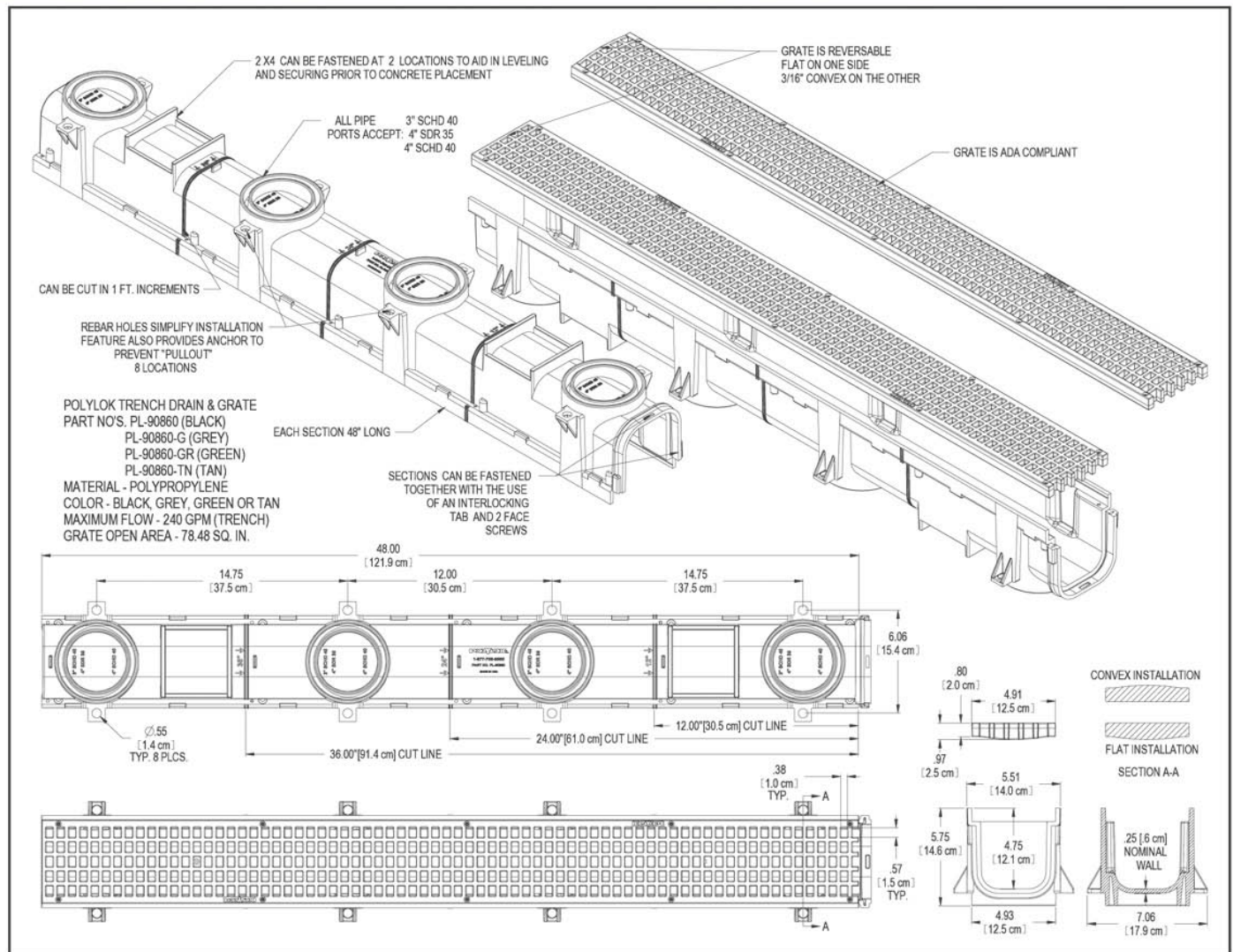


2"x4"s (0.6 x 1.2 m) can be fastened to provide a wider footing.

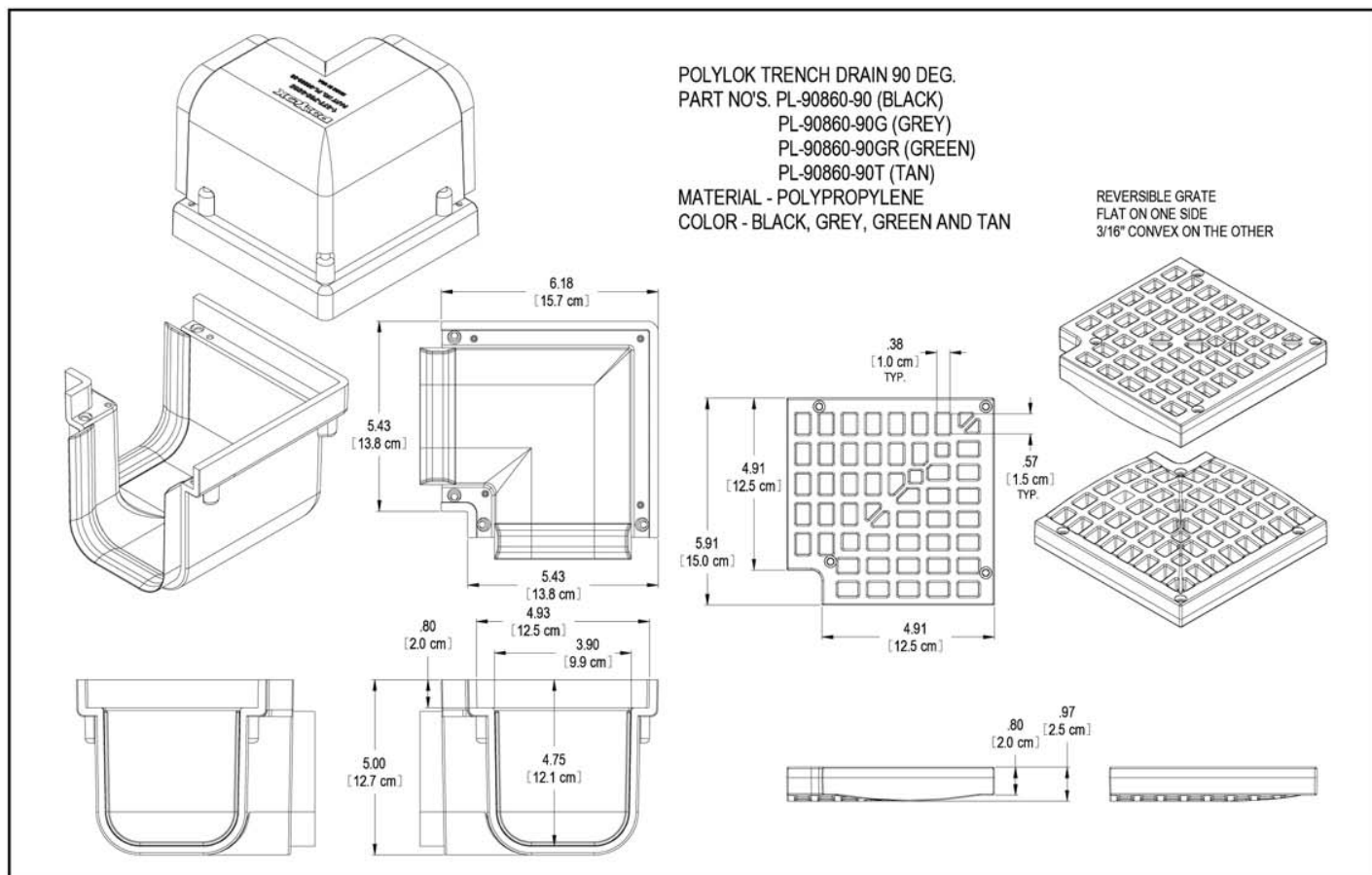
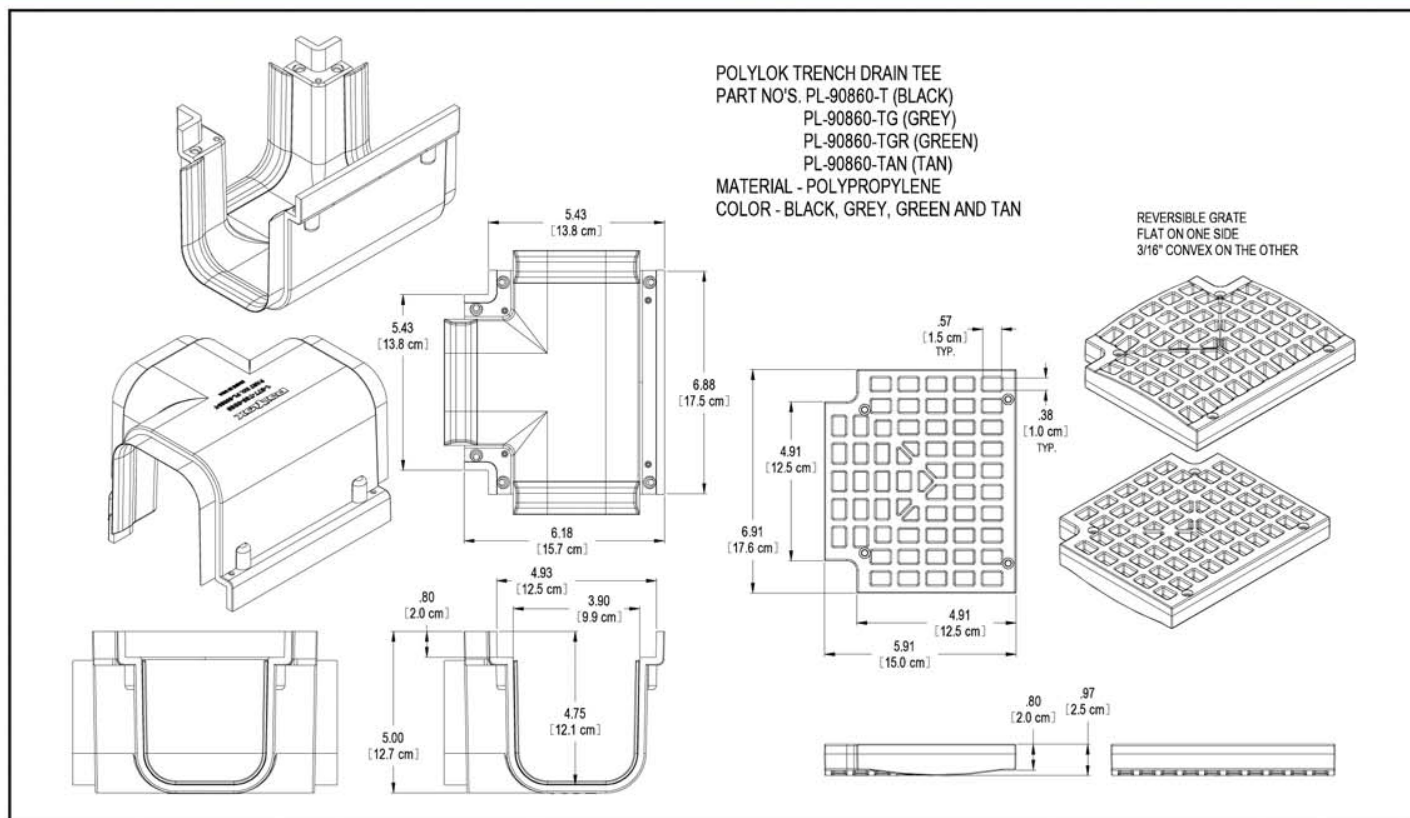


Outside holes accept #4 rebar for fast positioning.

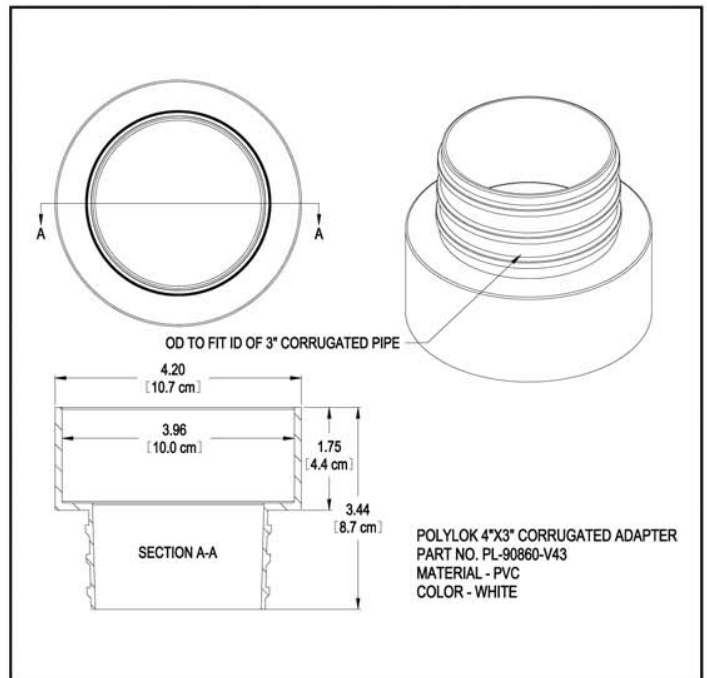
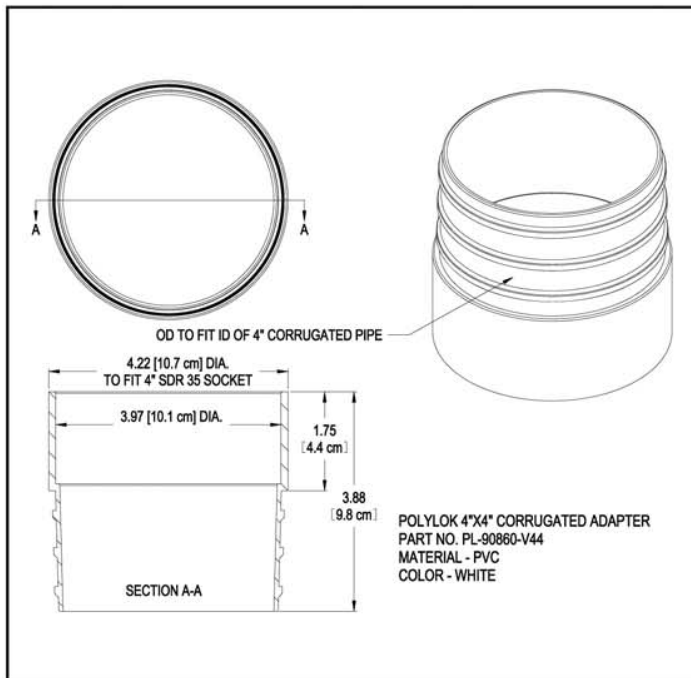
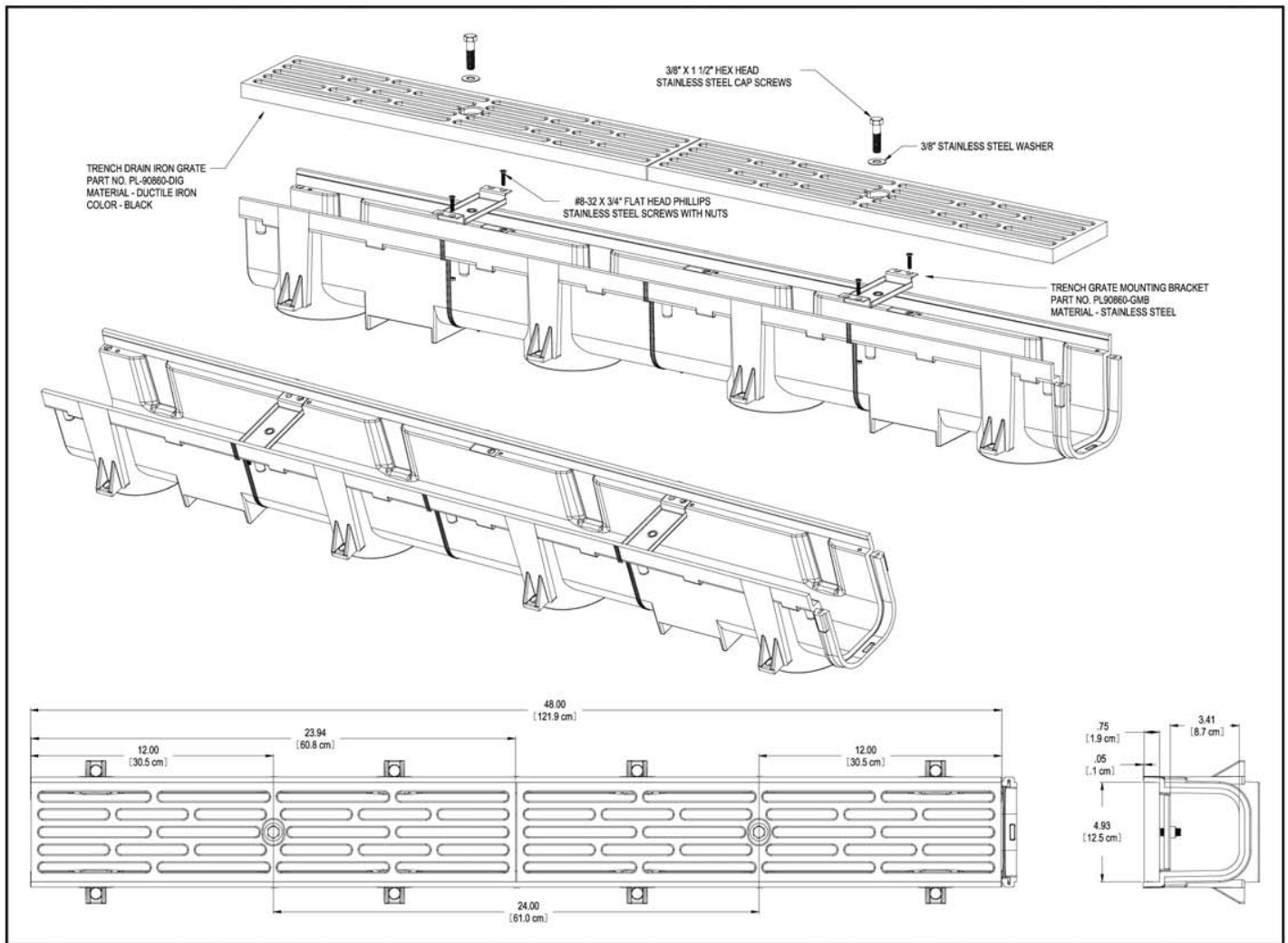
Product Specifications

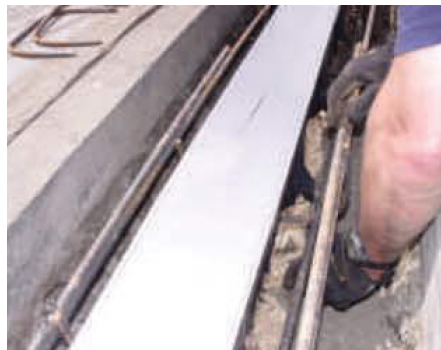


Product Specifications



Product Specifications



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Trench Drain Installation in Soil or Non-Traffic Load Bearing Applications

A trench drain design and layout should be prepared prior to installation. Include discharge outlets in design. Trench drains should pitch away 1" per 20' feet from a building. Polylok trench channels accept leveling blocks to aid in installation, or rebar can be installed and wire-tied to aid in leveling the channel. Tees and 90° accessory fittings are available.

1. Clear the area of all debris where the trench is to be installed.
2. Set-up the area with grade stakes and lines for grade control.
3. Excavate the trench area two inches deeper than trench depth.
4. Make trench width wide enough to accept and align trench drain.
5. Install a sand base in trench channel and level; do not use excavated soil.
6. Check leveling and alignment of trench sections to ensure site is at grade.
7. Install grates and connect the trench sections to required distance.
8. Trench sections may require removal of some installed screws to lift grate to connect the trench sections together. Re-install screws.
9. Install trench end cap and outlet cap to the discharge outlet pipe. If discharging from bottom, use two end caps.
10. The trench grate should be covered with tape to seal out any sand before the final fill to stabilize the trench.
11. There are several final fill materials that can be used to seal in the sides and ends of trench drains. Some materials have trade names, but many common filler materials can be used in this application. Interlocking shaped sizes that can be compacted down and stabilize the trench drain in position such as crushed stone is ideal. **Do not use excavated soil.**
12. After final trench leveling and backfilling, remove tape from the grate and ensure screws and grates are tightly secured.

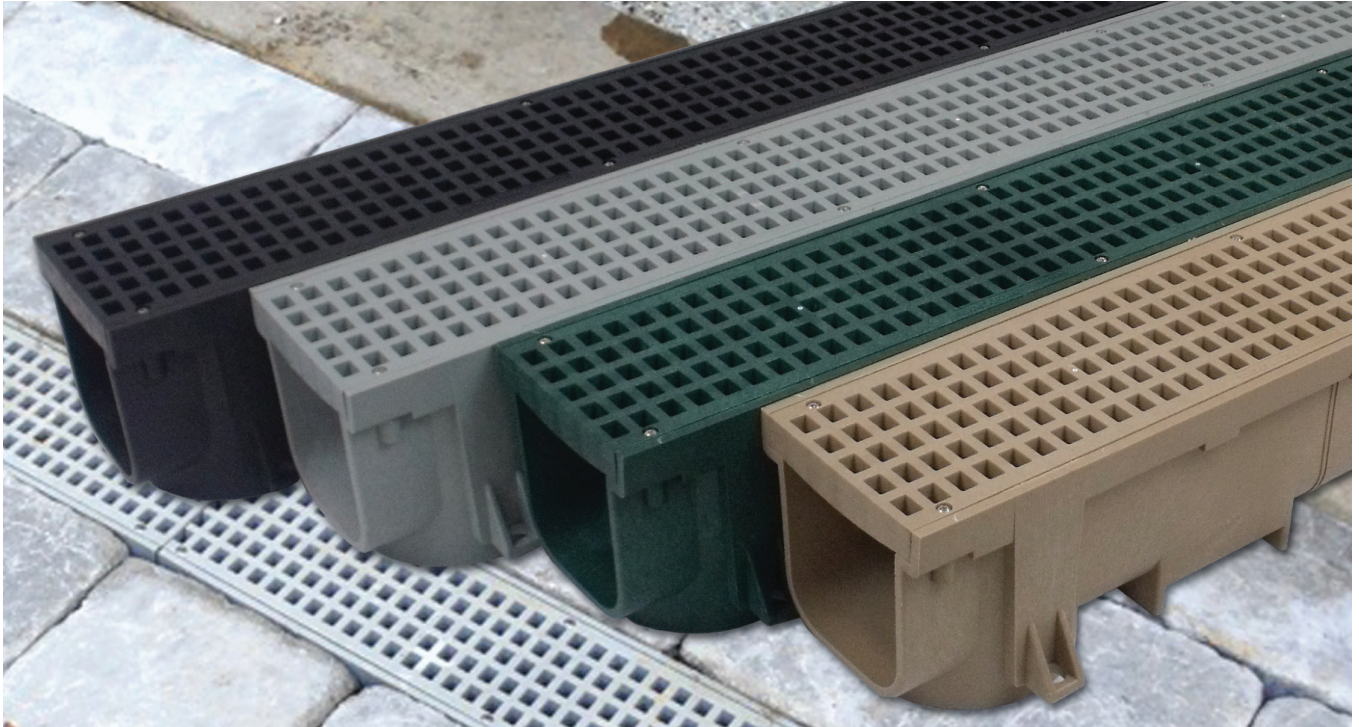
Note: The above instructions are for non-load-bearing applications and will not accept vehicle loads and are for drainage only applications. See instructions for H-20 load applications are available on the next page.

Note: These instructions are for installers who are familiar with excavation techniques and have experience with installations of these or similar products.

H-20 Installation Instructions Traffic Load Bearing Applications

1. Determine location and length of required trench drain. Also determine drain outlet location.
2. Lay out and excavate for the trench drain. Allow for a minimum of 6" (150 mm) on all sides and 6" (150 mm) on the bottom. (17.5" wide X 11.75" deep) **(see diagram 2)**
3. Determine which style of outlet is to be used; end outlet or bottom outlet. Excavate for outlet pipe.
4. If bottom outlet is to be used, use a 3 1/2" (75.5 mm) hole saw to cut the outlet opening. If the end outlet is used do not cut the bottom outlets. **(see diagram 3)**
5. Install end caps and/or outlets on determined ends. Assemble all required sections together at grade level. Make sure all grates are screwed in place. Attach outlet pipe to trench drain.
6. Using duct tape, cover all grate openings. Carefully place the assembled trench drain into the bottom of the trench.
7. Using temporary supports, bring drain up to within approximately 1" (25 mm) of grade. Center trench drain in trench.
8. Using #4 rebar, drive in 4 pieces of vertical rebar through the holes on trench drain at each corner per section. Make sure rebar is inserted deeply and tied to provide a firm footing and to prevent floating once the concrete is poured.
9. Raise the trench drain so that the top of the drain is even with the finish grade. Wire the trench to rebar at the 4 corners of each section. Be sure to wire above and below at each corner hole position. Check drain elevation frequently while tying. **(see diagram 5)**
10. Wire tie #3 rebar loops to #4 vertical rebars. **(see diagram 5)**
11. Wire tie #4 horizontal rebars to #3 rebar loops at all intersections.
12. Wire tie remaining #3 rebar loops to #4 horizontal rebars. Space evenly in between already tied #3 rebar loops at all intersections
13. Cross tie #4 vertical rebars at all drain joints. **(see diagram 4)**
14. Check that trench drain is still at proper elevation. Also check that drain outlet pipe is secured to trench drain and that it has required pitch.
15. Using a 5,000 psi air entrained concrete mix, pour concrete using proper vibration and consolidation practices.
16. Trowel finish flush with top of trench drain and even with grade. An edger tool may be used if desired.
17. After concrete begins to set, promptly remove all duct tape from grates.

REFER TO INSTALLATION DIAGRAM INSIDE



Scan for more
information



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