



# TUF-TITE®

## Trench Drain TR-1

### The only injection molded Trench Drain

- Non-corrosive High Density Polyethylene.
- 235 p.s.i industrial strength
- H-20 wheel load rating

Comes completely assembled. One unit. One price. No Extras.

### Snap-on End Caps

Simply remove an end cap, extend the trench to any length, and re-install the end cap.

### Cut to Size

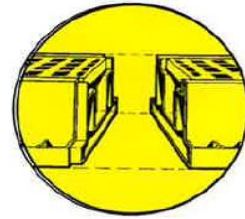
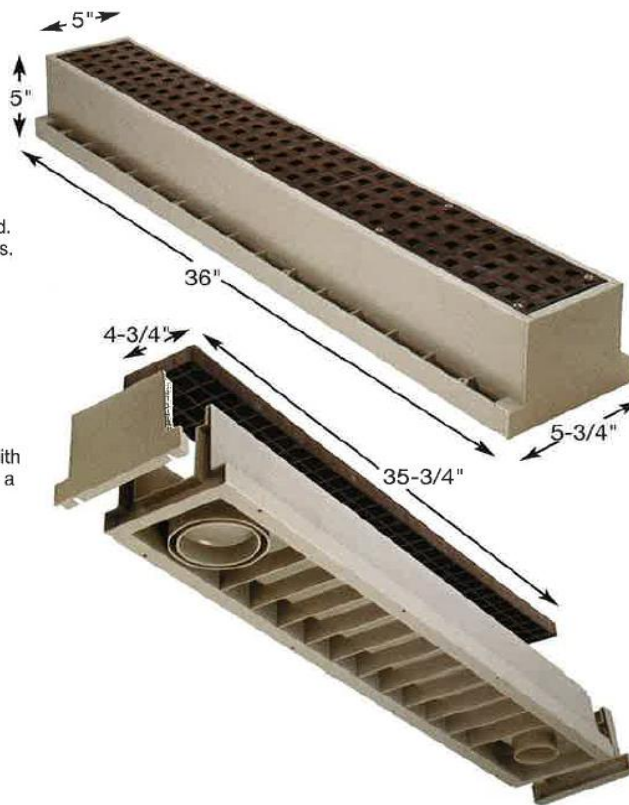
The trench may be field cut with a hand saw, and capped with a male end cap or a TR1-D4 End Drain

### Molded-In Ribs

Provide exceptional vertical compression strength - unequaled by other trench designs.

### Choice of 3 Drains

Three bottom drains are molded in. Knock-out membranes allow trench to be drained with 2" or 3" Schedule 40, or 4" SDR35 pipe.



### Interlocking Molded Ends

No need to remove the grate during installation. Simply snap the trenches together for a Tuf-Tite® free-flowing fit.

### ADA Compliant Grate

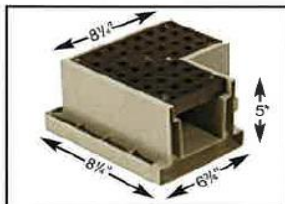
Safe, square 1/2" x 1/2" openings. Molded of specially formulated HDPE with no foam or fillers.

### Stainless Screws

The grate is held in place with 10 Type A-SmS screws.

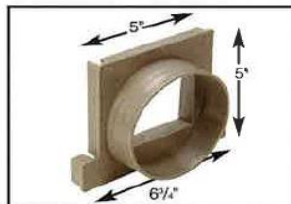
### Americans With Disabilities Act

*Regulation 4.5.4:* If gratings are located in walking surfaces, then they shall have spaces no greater than 1/2" (13mm) wide in one direction. If gratings have elongated openings, then they shall be placed so that the long dimension is perpendicular to the dominant direction of travel.



### TR1-90 Corner

90° injection molded HDPE corner unit for Trench Drain. Molded interlocking ends for simple, snap-together installation. Comes assembled with grate and 6 Type A-SmS stainless screws. ADA compliant.



### Optional End Drain TR1-D4

Male End Drain snaps on female end of Trench Drain. Accepts:

- 4" SDR35-3034 pipe
- 4" 2729 pipe
- 4" corrugated pipe when used with an MF-4 pipe connector



### MF-4 Pipe Connector

To connect 4" corrugated pipe to the bottom of Trench Drain or to the End Drain TR1-D4. Provides a watertight fit.



### Gender Changer

Changes male end to female (TR1-GCF) or female end to male (TR1-GCM)

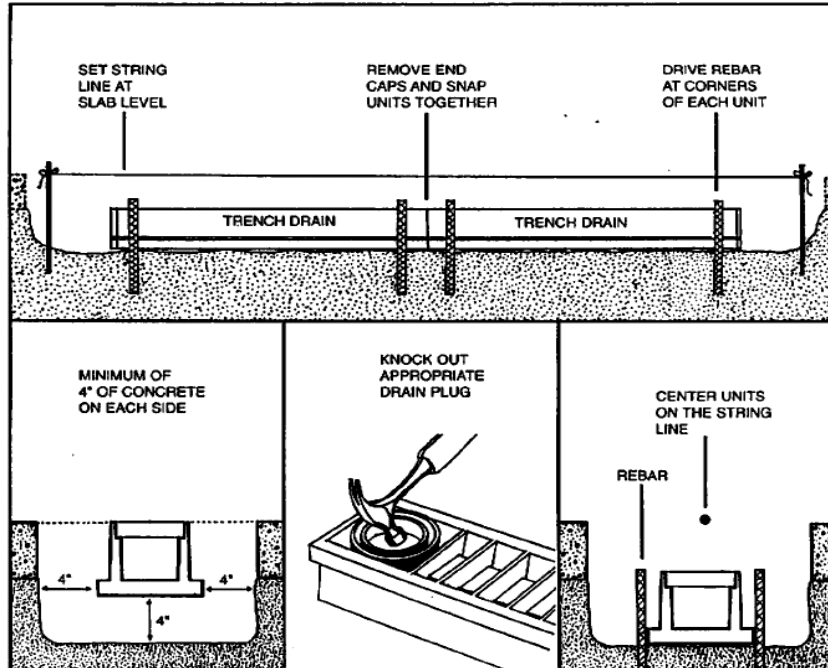
See additional drainage products on reverse side



Drainage and Septic Products

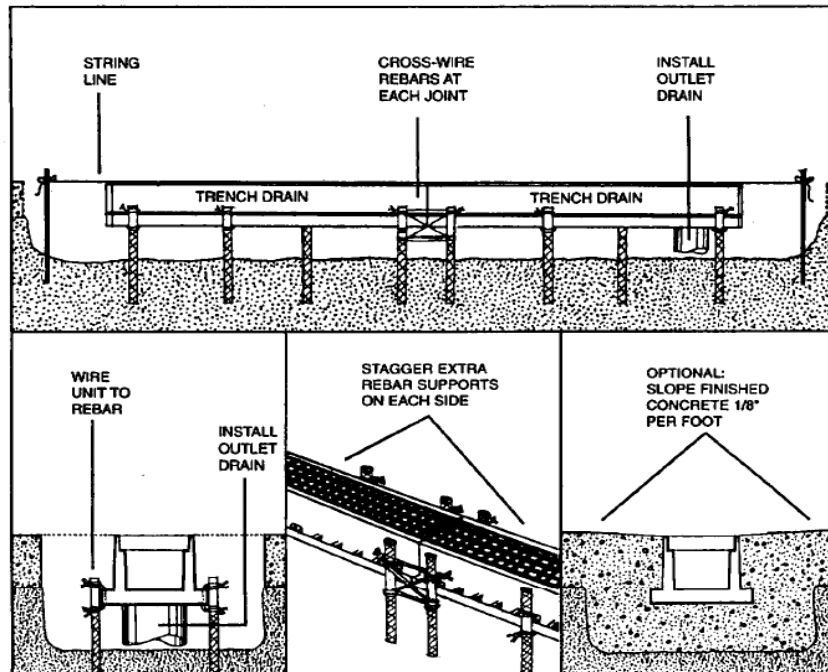
### EXCAVATE AND LAYOUT UNITS

- 1. Dig Trench.** Mark off your Trench Drain layout and dig a trench, allowing for a minimum of 4" of concrete on both sides and underneath the Trench Drain. Make the excavation wide enough and deep enough so bedding concrete will be equal to the slab thickness.
- 2. Stake out a string line.** String a line over the center of the path you want the Trench Drain to run. Set string at desired elevation.
- 3. Layout Trench Drains.** Center them under the string line. Remove end caps and snap units together.
- 4. Prepare for outlets.** Determine where you want outlet pipes and use a hammer to knock out the appropriate plugs on bottom of Trench Drains. If optional End-Cap Drains are to be used, this is unnecessary.
- 5. Set rebar supports.** Drive rebar into sub-base alongside the "Wire Holes" at the four corners of each Trench Drain. Rebar should be set snugly against the units.



### ELEVATE AND WIRE UNITS

- 6. Elevate Trench Drains.** Unsnap the first Trench Drain, lift it to the level of the string line, and wire it in place on the rebar. Snap in the next unit and wire it in position on the rebar. Follow the same routine until all units are in place.
- 7. Add reinforcement.** Where two Trench Drains join, cross-wire the rebars for more stability. Drive in and wire at least one additional rebar to each side of each unit as shown.
- 8. Final preparation.** Before pouring concrete, connect your outlet pipe to the bottom of the Trench Drain. Use duct tape to cover the grate.
- 9. Concreting.** Pour concrete equally on both sides of the Trench Drain to maintain alignment. Concrete should be finished flush with the Trench Drain. Concrete edger may be used if desired.



# HARDSCAPE INSTALLATION METHODS: TRENCH DRAIN & TRENCH PAN

