

DrainageKits.com 5" Driveway Drainage Kit

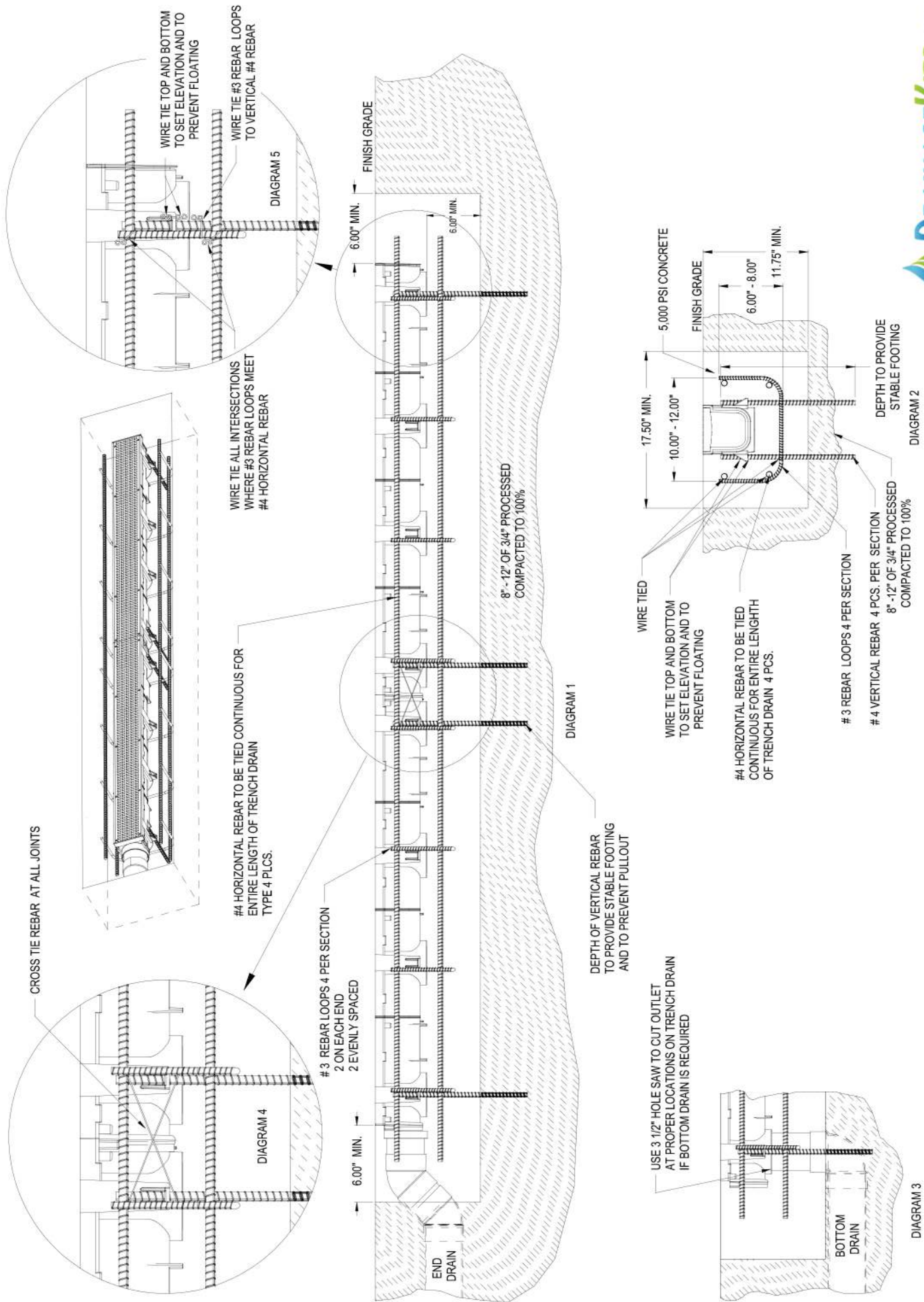
TRENCH DRAIN PL-90860 H-20 INSTALLATION INSTRUCTIONS

1. Determine location & length of required trench drain.
Also determine drain outlet location.
2. Layout & excavate for trench drain. Allowing for a minimum of 6" on all sides and 6" on the bottom (17.5" wide X 11 3/4" deep). (see diagram 2)
3. Determine which style of outlet is to be used, end outlet or bottom outlet.
Excavate for drain outlet pipe.
4. If bottom outlet is to be used, use a 3 1/2" hole saw to cut outlet opening.
If end outlet is used no cutting is necessary. (see diagram 3)
5. Install end cap and or outlet cap 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 assembled trench drain into bottom of trench.
7. Using some temporary supports, bring drain up to within app. 1" of grade.
Center trench drain in trench.
8. Using # 4 rebar, drive in 4 pcs. of vertical rebar through holes on trench drain at each corner per section. Make sure rebar is driven in deep enough to provide a firm footing and to prevent floating once the concrete is poured.
9. Raise trench drain so that top of drain is even with finish grade. Wire tie trench drain to rebar at the 4 corners of each section. Be sure to wire tie 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.
(see diagrams 2 & 5)
12. Wire tie remaining #3 rebar loops to #4 horizontal rebars. Space evenly in between already tied #3 rebar loops at all intersections. (see diagram 1)
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 the 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. Edger tool may be used if desired.
17. After concrete begins to set, remove all duct tape from grates promptly.

DRAINAGEKITS.com

842 Graham Drive
Fremont, OH 43420
sales@drainagekits.com

Zabel Polylok Driveway (H-20 Load Rating) Installation Instruction Diagram



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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 grate is at grade.
7. Install grates and connect the trench sections to required distance.
8. Trench sections may require removal of some screws to lift grate to connect the trench sections together if grates are screwed down.
9. Install trench end cap and outlet cap to the discharge outlet pipe.
10. The trench grate should be covered with a 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 and provide stabilization. Some materials have trade names but many common filler materials can be used in this application as they have interlocking shaped sizes that can be compacted down and stabilize the trench drain in position. Crushed stone is ideal; do not use excavated soil.
12. After final trench leveling and backfilling, remove tape from the grate and check to tighten all grates and screws.

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

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