

Shortcut on How to Determine Linear Feet Needed

- Permit was written for Conventional Gravel System
 - **MULTIPLY BY 1.2**
 - 3 lines 120 feet long of gravel = 360 lf
 - $360 \text{ lf} \times 1.2 = 432 \text{ lf of LDP}$
- Permit was written for an "Accepted" product with a 25% reduction applied
 - **MULTIPLY BY 1.6**
 - 3 lines 110 feet long = 330 lf (Accepted w/25% reduction applied)
 - $330 \text{ lf} \times 1.6 = 528 \text{ LF of LDP}$



Installation Instructions for 10 Inch "No-Rock" Large Diameter Septic Pipe (LDP)



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LARGE DIAMETER PIPE (LDP) - FACTS

- Been in the North Carolina Onsite Wastewater Rules, Section .1956 (3)(a) (i) since the early 1980's.
- In the forthcoming 18E Rules Large Diameter Pipe can be found in Section .0904
- Can be used in any soil class where the maximum LTAR is 0.08 or less.
- August 5, 2020 CRUMPLER PLASTIC PIPE 10 Inch "No Rock" Large Diameter Pipe received "ACCEPTED" status approval for use in North Carolina. (AWWS 2020-01)
- 10 Inch LDP is equivalent to a 2.5 foot wide conventional gravel trench.
- 8 Inch LDP is equivalent to a 2.0 foot wide conventional gravel trench.

LDP Pipe Size	Minimum Trench Width	Maximum Trench Width	Minimum Trench Spacing
8 Inch	10 Inches	18 Inches	5 Foot OC
10 Inch	12 Inches	24 Inches	6 Foot OC

To determine how many linear feet of LDP you need use the following formula:

$$TL = [(DDF/LTAR)]/ETW$$

Where TL = Trench Length

DDF = Daily Design Flow

LTAR = Long Term Acceptance Rate

E1W = Equivalent Trench Width (for LDP = 2.5)

RECOMMENDED INSTALLATION INSTRUCTIONS:

1. Dig trench to specified depth as defined on the septic permit.
2. Ensure grade (fall) does not exceed 1 inch in 100 feet.
3. Rake trench bottom smooth and remove any large clods, rocks, roots or other debris if present.
4. Remove the black protective wrap just prior to installation of the LDP!
5. Connect the LDP together to the desired length. LDP can be cut to the exact length needed for the installation.
6. Assemble the joints together utilizing the provided snap coupler. Roll back the extra fabric at the joint and save for use later
7. Ensure the "Yellow Stripe" is facing up at the top of the pipe.
8. Secure the joints of pipe to the snap coupler with 1 1/2" sheet rock screws or equivalent .
9. Roll the extra fabric up over and around the snap coupler and joint. (Note: You can assemble the LDP either outside the trench then lay the pipe into the trench or inside the trench.)
10. After the LDP is assembled in the trench ensure the "Yellow Stripe" is still position on top of the pipe.
11. Install the End Cap and Combo Cap as needed. Secure caps with 1 1/2" sheetrock screws or equivalent and/or "Tile" tape.
12. Prior to backfilling the trench, ensure the LDP remains in the center of the trench. For trench excavations widths greater than 15" wide this may require placing soil around each side of the pipe every 10 feet or so to keep it from moving.