

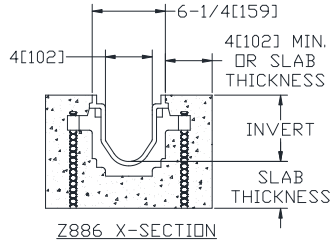
Z886-HD

6 [152] WIDE TRENCH DRAIN SYSTEM WITH HEAVY-DUTY FRAME CONCRETE INSTALL

Dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.

Step 1

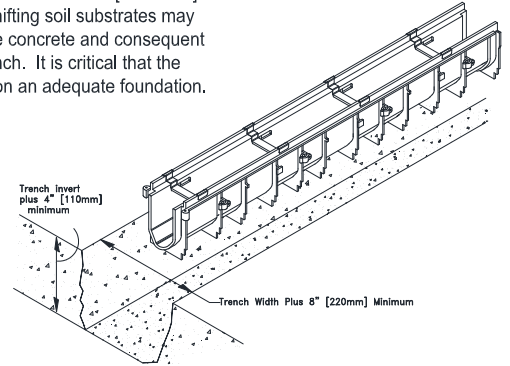
Four-inch concrete encasement is minimum. Guidelines for reinforcing an encasement would be minimum of 4000 PSI [27.5 MPa]. Concrete must be vibrated to remove air voids in encasement, especially under the frame rails.



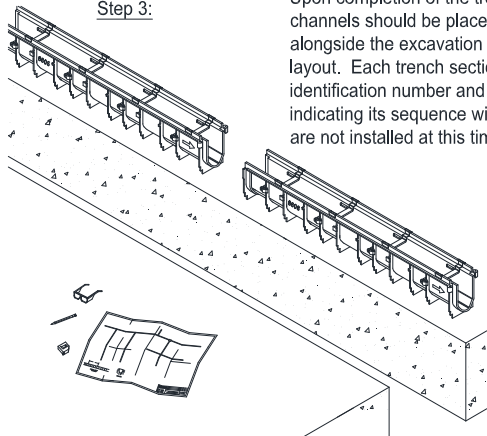
Specifying engineer is responsible for concrete encasement and reinforcing based upon application and local codes, as this may vary.

Step 2:

Trench excavation must be 4" greater than the trench depth and a minimum of 14" [355.6mm] width. Soft and/or shifting soil substrates may cause cracking of the concrete and consequent movement of the trench. It is critical that the concrete be poured on an adequate foundation.

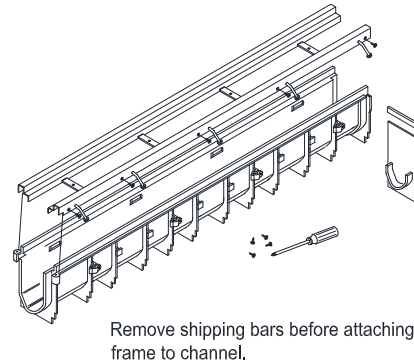


Step 3:



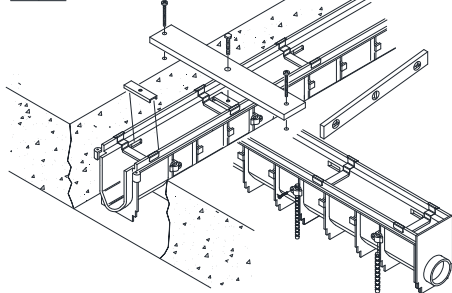
Upon completion of the trench excavation, the channels should be placed in numeric order alongside the excavation and according to the job layout. Each trench section has a trench identification number and flow direction arrow indicating its sequence within the system. Grates are not installed at this time.

Step 4:



Perma-Trench offers a Heavy Duty (HD) frame option for intense traffic patterns. Simply slide the HD frame over the trench sections as shown below and attach with the hardware provided. Make certain that the notched end of the frame is at the male end of each trench section.

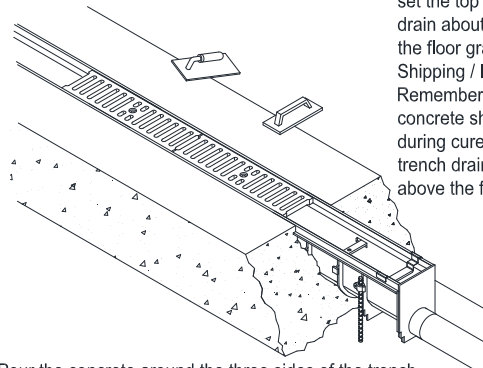
Step 5:



An alternative means of installation is to suspend the trench drain as shown. Wooden braces to hang the trench run can be attached to the drain body through the grate lock down bars as illustrated above.

Typically, a trench system is assembled from the outlet on back. Starting with the deepest section or catch basin, set the first channel utilizing Perma-Trench's unique anchoring system. Integral rebar clips are located along the length of each trench drain and catch basin for easy attachment to #4 rebar stakes. Simply align the rebar stakes with the trench drain and drive them into the ground for positive anchoring. Attach the trench drain to the rebar stakes with the hardware provided.

Step 6:



Finish trawling should be done to set the top edge of the trench drain about 1/16" [1.58mm] below the floor grade. Then remove Shipping / Installation Bars. Remember to compensate for concrete shrink that may occur during cure so that the edge of the trench drain does not protrude above the finished floor grade.

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