



Z883

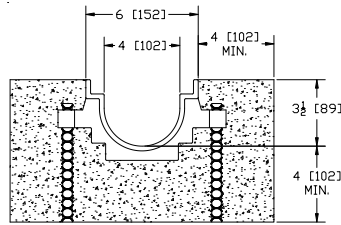
6 [152] WIDE REVEAL TRENCH DRAIN SYSTEM CONCRETE INSTALL

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

STEP 1:

Four inch [102mm] concrete 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.

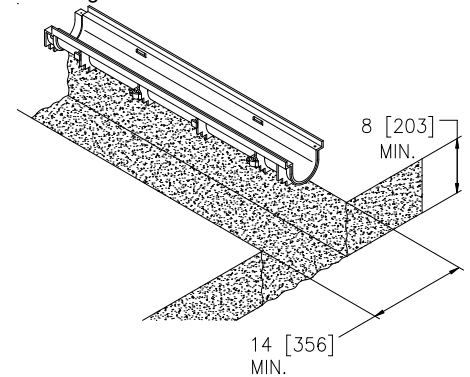
Specifying engineer is responsible for concrete encasement and reinforcing based upon application and local codes, as this may vary.



Z883 X-SECTION

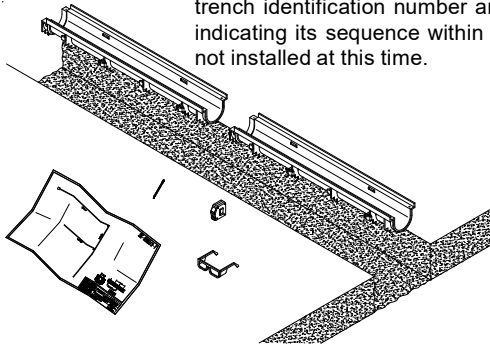
STEP 2:

Trench excavation must be the minimum of 4" [101.6mm] or the slab thickness surrounding the trench. 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. Verify depth of trench excavation allows for the same thickness of concrete under and beside the trench as the surrounding slab thickness.



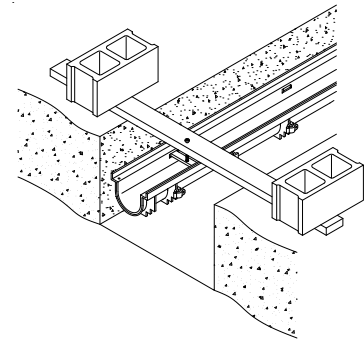
STEP 3:

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



STEP 4:

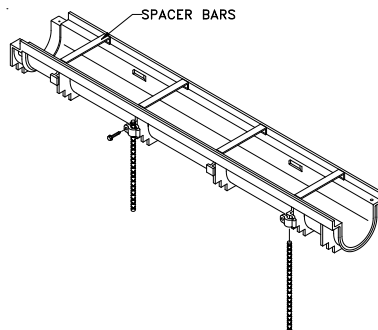
An alternative means of installation is to suspend the trench drain as shown. Wooden braces to hang the trench run can be attached to the drain body through the grate lock down bars as illustrated below.



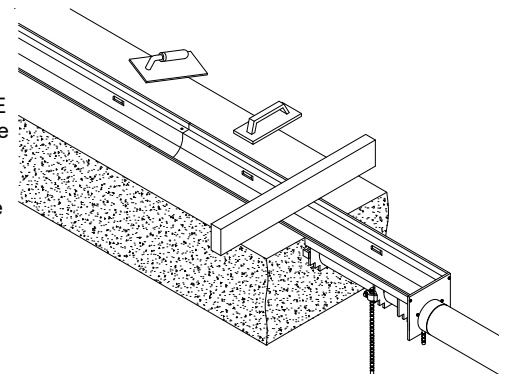
STEP 5:

Once the trench is set and level, the snap-off installation spacer bars must be detached and placed within the grate ledge as shown. The spacer bars can be found along the outside edge of the trench between the integral rebar clips. To remove the bars, simply twist and snap off.

Placement of these spacer bars should be about every 15" [381mm] throughout the entire length of the trench run. These temporary spacer bars must remain in place until the concrete has set to ensure proper fit of the grating. Any shipping bars still left in the trench sections should be removed at this time.



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:

Pour the concrete around the three sides of the trench drain. Be certain to adequately VIBRATE the concrete as it is being placed. Proper vibration will eliminate any unwanted voids within the concrete pour. If sidewalls are used, a first and second pour are recommended.

Finish troweling should be done to set the top edge of the trench drain 1/16" [1.6mm] below the floor grade. Remember to compensate for the concrete shrinkage 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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