





Outlets & Accessories conta

To attach an end outlet, remove the 1-1/4" male overlap portion of the trench as shown. Trim the end outlet to the appropriate height and attach with the hardware provided.



A bottom outlet is attached to the bottom side of the trench drain as shown above. If external ribbing conflicts with the location of the outlet, simply remove the ribbing with a reciprocating saw. A hole saw can be used to cut the appropriate size hole through the bottom of the trench. Attach the bottom outlet with the hardware provided.



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The Perma-Trench sections are designed to stack upon themselves to ease handling and optimize space. Considerations must be made to stack the trench sections on a flat pallet as shown. Make certain that the shipping bars are in place and that the trench sections interlock with each other as shown. It is important that no foreign objects are allowed to lean on the trench sections since this can place undue stress on the components.

Frame Options

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.

A Stainless Steel Top Veneer Frame (SVF) is also available as an option for the system. The veneer fits snug over the grate ledge of the trench to provide a stainless steel edge at the suface.







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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.

Adjust the trench to the desired elevation and continue with the adjacent section.



If a catch basin is included within your layout refer to step 13 for further details on catch basin preparation.



Joint Concetion

Assembling the trench run is easy with Perma-Trench's unique mechanical joint interlock. Simply align the two mating ends of the trench sections and fasten with the hardware fasteners provided.

Silicon caulking may be used at each joint as a sealer.

A joint connector (JC) is available to join two trench sections without the interlocking joint, such as sections that may be flowing in opposite directions. Cut the lengths and fasten the JC as shown. The connection can be sealed with a silicon caulking and held in place mechanically with the fasteners provided in the accessory assembly bag.



Catch Basins

To make a catch basin connection, simply invert the catch basin and remove the basin end cap as shown.



This can be easily accomplished with the use of a hand saw or power reciprocating saw. Use the bottom ledge of the end cap as a guide.

<u>**BEFORE POURING THE CONCRETE, BE SURE THAT PROPER</u> <u>STYROFOAM OR WOOD BRACING IS PLACED INSIDE CATCH BASIN TO</u> <u>PREVENT DEFLECTION FROM THE CONCRETE ON SIDES.**</u>

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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.

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Finish troweling should be done to set the top edge of the trench drain about 1/16" below the floor grade. 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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	886 Check List
<u>CHANNELS</u>	GRATES
#8601	Cast Grates - 20"
#8602	(CC) Solid Cast Iron
#8603	(CG) Cast Iron
#8603N	(DG) Ductile Iron
#8604	(GCG) Galvanized Cast Iron
#8605	(HP) [HPD] Ductile Heel Proof
#8606	(HPP) Heel Proof Polyethylene
#8606N	(LC) Cast Iron Longitudinal
#8607	(LD) Ductile Longitudinal Slot
#8608	Fabricated Grates - 60"
#8609	(FG) Galv. Slotted
#8610	(RFG) Galv. Slotted (reinforced)
#8611	(GC) Glav. Cast Iron
#8612	(GD) Galv. Ductile
#8612N	(GG) Fiberglass
#8613	(PG) Galv. Perf.
#8614	(RPG) Galv. Perf. (reinforced)
#8615	(ST) Galv. Solid Cast Iron
	Stainless Grates - 60"
<u>FRAME (optional)</u>	(FS) S.S. Slotted
(HD) Heavy-Duty Frame w/ Studs	(RFS) S.S. Slotted (reinforced)
(HDS) S.S. Heavy-Duty Frame w/ Studs	(LS) S.S. Small Slot (H.D.)
(HDG) Galv. Heavy-Duty Frame w/ Studs	(PS) S.S. Perf.
(SVF) S.S. Veneer Frame	(RPS) S.S. Perf. (reinforced)
	(SBG) S.S. Bar - 20"
ENDCAPS/OUTLETS/ACCESSORIES	(SBGHP) S.S. HP Bar - 20"
(E1) Closed End Cap (E2) 2"NH End Cap	Z-887
(E2) 2"NH End Cap (E3) 3"NH End Cap	Z-887-1
(E4) 4"NH End Cap	6 X 20 Catch Basin
(E6) 6"NH End Cap	(SVF) S.S. Veneer Frame
(U2) 2" Bottom Outlet	(HD) Heavy Duty Frame w/ Studs
(U3) 3" Bottom Outlet	<i>Z-887 Outlets</i>
(U4) 4" Bottom Outlet	E3/U3 (Z-887) 3" Outlet
(U6) 6" Bottom Outlet	E4/U4 (Z-887) 4" Outlet
(DB) Bottom Dome Strainer	Buckets
,	Y6 6" Galv. or S.S. Sediment Bucke
(T) "T" Connection Adapter	Y12 12" Galv. or S.S. Sediment Buck
(GL) Bag #840 Grate Lockdown	Y24 24" Galv. or S.S. Sediment Buck
Bag #841 Channel Assembly Screws	