

XT Slot Drain Suspended Installation

Materials List (Only the Slot Drain Channels, Catch Basins, PVC Joint Couplers are supplied by SportsEdge; 3/8" Eyebolts are an "Optional" item that can be purchased from SportsEdge at an additional cost or purchased locally by the installer.)

Slot Drain Channels & Catch Basins
PVC Joint Couplers
3/8" Eye Bolts W/ Nuts & Washers; Bolts Should Be At Least 6" Length (2 recommended per channel)
Concrete Forms / Form Lumber
Nail Stakes
String Line
Laser Level with Receiver and Grade Rod
2" X 4" X 24" Suspension Lumber
2" Wide Duct Tape; Enough for Entire Length of Slot Drain
Concrete Saw W/ Diamond Blade
3/8" Masonry Drill Bit
7/16" Wood Drill Bit

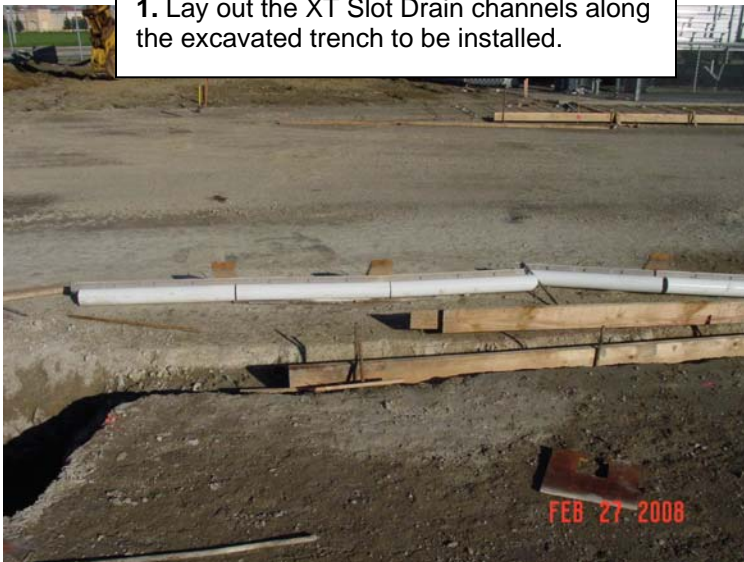
Please read carefully!!

Read installation instructions from beginning to end before beginning the installation.

Notes:

1. Be sure to completely consolidate the concrete during the concrete pour.
2. It is recommended that a backer rod or other filler material be placed in the slot to ensure that the slot remains clear of track material. Use a sharp utility or razor blade to remove the backer rod material once the track material has set.
3. Always double check the channel locations; per the plans before the final concrete pour; make sure the top elevation is correct and the slot drain is straight longitudinally.
4. Keep the polymer concrete slot opening protected and clean throughout the construction process.
5. For better adhesion of the track surface; it is recommended to lightly sand (or clean with acetone) the 2" wide polymer concrete top of the slot drain if covering with track surfacing.

1. Lay out the XT Slot Drain channels along the excavated trench to be installed.



1a. 2 Meter long XT Channel Drain units are shipped and to be installed in the straight-aways to decrease installation time (do not use 2M Channels in radius).





2. Start at one end of either straight-away (beginning of the track radius) and set the first 2900 Series SportsEdge in line catch basin. Before permanently setting the catch basins, it is important to cut or drill out the necessary size hole for the outlet pipe in the catch basin sidewall as indicated on the project design drawings. This can be done using a diamond tipped hole saw, or 3/8" masonry drill bit. When using masonry drill bit, drill holes around the circumference at 3/4" centers and tap out the remaining fins of polymer concrete with a cold chisel and then grind smooth for outlet pipe insertion.

****CATCH BASIN CONNECTION NOTES (PLEASE READ):**

For applications where the XT slot drain system is combined with the PRO channel drain system catch basin, utilize the appropriate (4" or 6") **connector plate** at the pro catch basin (see fig. 1a & 1b) to accept the XT slot drain. Use the same technique to accommodate the PRO channel directly (see fig. 2) to the XT slot drain. **NOTE: Sealant is required when connecting the 6" connector plate and XT-6 Slot Drain to the Catch Basin (see Fig. 1b).**

FIG. 1a



<<CONNECTOR
PLATE, 4"

FIG. 1b



<<CONNECTOR
PLATE, 6"

FIG. 2



<<CONNECTOR
PLATE, 4"

The 4" connector plate is NOT REQUIRED when the XT-4 Slot Drain is used with 2900XT-4 catch basins (see Fig. 3a). However the use of the 6" connector plate is required when connecting the XT-6 Slot Drain to the 2900XT-6 catch basins (see Fig. 3b). **NOTE: Sealant is required when connecting the 6" connector plate and XT-6 Slot Drain to the Catch Basin (see Fig. 3b).** Note: When connecting the XT Slot Drain to the Catch Basin; remove the male tab from the end of the slot channel with a cold chisel (see Fig. 3c).

FIG. 3a

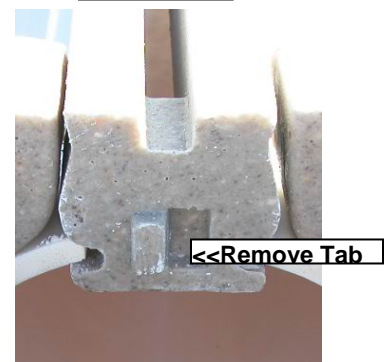


FIG. 3b



CONNECTOR>>
PLATE, 6"

FIG. 3c



<<Remove Tab



FIG. 4

3. Set concrete edge forms on both sides of the drain to the correct elevation. This elevation is per architectural plans for the top of the finished concrete encasement. Check all elevations using a laser level and string lines.

***Note:** for applications where the track surface is poured over the concrete encasement and polymer concrete slot, the finished elevation will be lowered by approximately 0.5" or 12.7mm.

Please check the design drawings and with the track surface installer for the exact depth of the track surface.

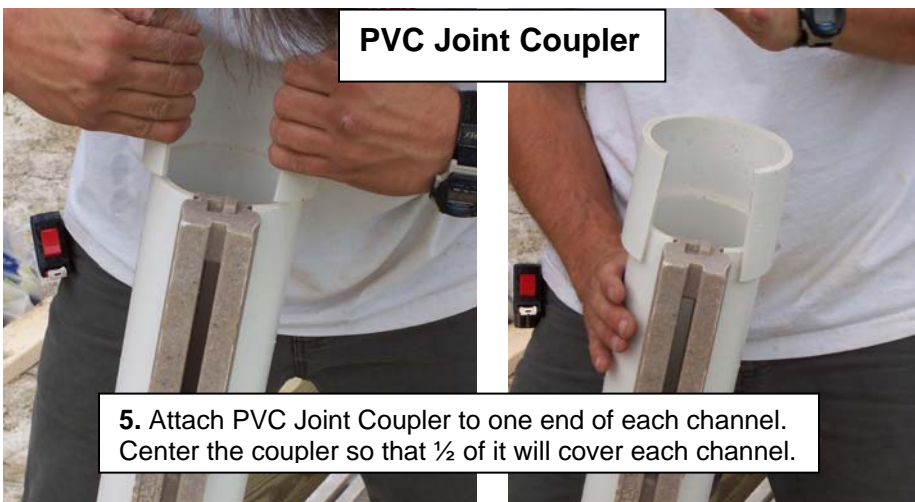
4. In the straight away, great care should be taken to make sure the concrete forms are set straight. The forms should be reinforced with nail stakes to ensure no movement during the concrete pour. Install stakes as required by local soil conditions (see fig. 4).

Likewise in the radiuses, formwork should be set to ensure the finished concrete radius is smooth and continuous in appearance (see fig. 5).

NOTE: Fig. 5 shows using (1) 3/8" Eyebolt at each joint for suspending the Slot Channel; **SportsEdge recommends (2) eyebolts at each joint (1 for each channel) to ensure maximum stability during concrete pour.**



FIG. 5



PVC Joint Coupler

5. Attach PVC Joint Coupler to one end of each channel. Center the coupler so that 1/2 of it will cover each channel.



6. Drill (or use pre-drilled boards) a 7/16" hole through the center of the 2 x 4 suspension lumber.

***Note:** SportsEdge recommends installing with (2) 2 x 4's (or (1) 2 x 6) and 2 eyebolts per channel joint (one bolt on each side of the channel joint); if the installer opts to install with (1) 2 x 4 and (1) bolt per joint, **make sure that the suspension lumber and bolt is at the end of a channel (joint), not in the middle.** Installing the bolt in the middle could allow for movement at the joint during the concrete pour resulting in a poor installation.

7. Eye Bolts & Suspension Lumber: Insert Eye Bolt into slot and turn 90°. Tighten Bolt to Suspension Lumber to suspend slot channel. At the joint of 2 channels; insert the eye bolts through the holes of each 2 x 4 and then attach washer and nut. **(2 recommended per channel joint; see below photos)**



NOTE: Although not usually required; joints can be sealed with silicone; or glued with PVC glue during installation.



8. Place channels on form boards making sure the XT Slot Drains are set straight. The open polymer slot should remain aligned. The XT Channels are joined end to end using the tongue-in-groove connection and the PVC Joint Couplings.



9. Fasten suspension lumber to edge forms to help stabilize concrete edge forms. NOTE: Screws are preferred to decrease the possibility of lowering you form board elevation.



Sections may also be Pre-Assembled In Longer Lengths:
EXAMPLE SHOWN: 3 Meters of XT-4 (9.84') Pre Assembled (51 lbs.)
NOTE: 2 Meters sections are provided for the straight-aways.

10. Seal Slot to protect during the concrete pour.



11. Once the drain is set and secured; double check the location and alignment before pouring the concrete.



Note: Duct Tape will help keep sediment & debris out of XT Slot Drain during installation.



12. Pour concrete encasement. Be careful not to move the channels out of alignment during the concrete pour. Distribute concrete evenly when pouring. Fully consolidate and float concrete flush with the polymer concrete top.

Note: 1 meter length sections for the radius mean no pre-radius pieces are required. XT Slot Drain leaves a clean, continuous, and unbroken finished appearance for most typical track radiuses.



13. Form & block out for Catch Basin Covers. The covers must remain removable to allow for future access to the XT Drain System.

NOTE: Be sure to use the appropriate catch basin cover accepting the slot channel from one side or both. Example shown to the right: This cover has notches on both ends to accept the slot channel from both sides.



Removable Catch Basin Covers
use 1 locking device per cover.



Full Concrete Encasement

VARIED APPLICATIONS

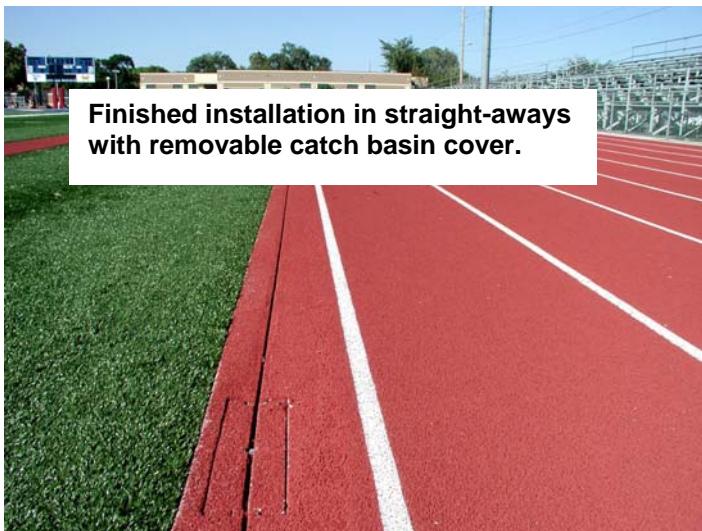


Retrofit applications can be suspended off the form work as well as an existing track.

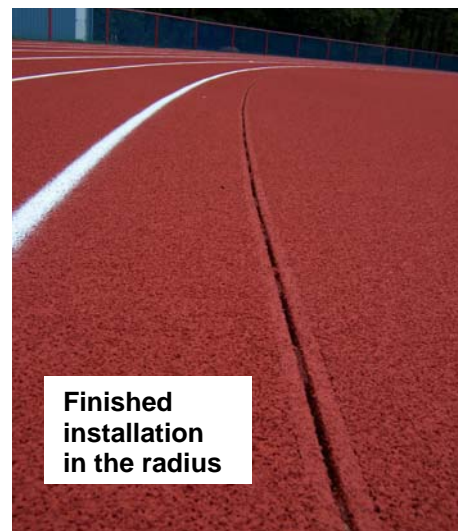
INFILL TURF: A Notched Ledge for the turf is formed and poured with the drain by attaching additional lumber to the formwork.



Radius (left) and Straight-away (right) sections shown with notch for infill turf.



Finished installation in straight-aways with removable catch basin cover.



Finished installation in the radius