

# FastTrack™

## » Installation Guide

Always consult local codes for specific requirements regarding trench drain installation in your area before beginning.

Always wear protective gear and observe safety precautions when installing the FastTrack™ system.

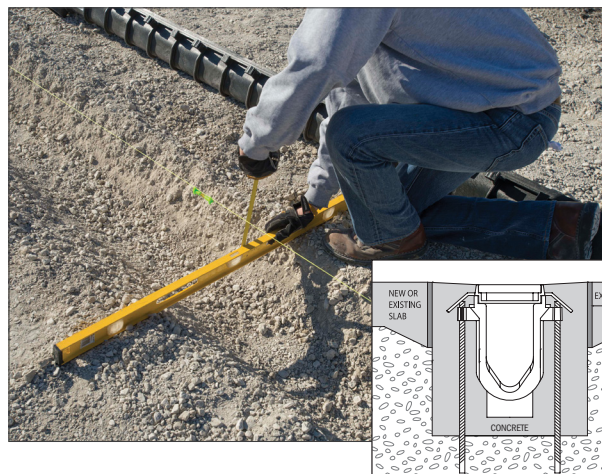
### Plan/Excavate

Excavate a trench for the FastTrack, considering both load class and slab thickness. All channels (and catch basin, if installed) must be encased with concrete on three sides. See installation diagram on pg. 3 for dimensions. The engineer should determine slab thickness based on application and traffic rating.

Concrete encasement is required regardless of surface type (concrete, asphalt, pavers, etc.).

Expansion joints will be needed on each side of the trench, according to specifications. Do Not use the FastTrack as an expansion joint.

Set a string line in the trench at level of final slab elevation to use as a guide.



### Layout Channels

Lay out the channels, in order, alongside the excavated trench, starting with the deepest point (catch basin or outlet point) and working 'upstream'. Be sure flow arrows point towards the outlet end.

For Catch Basin: Set catch basin in position (checking for elevation, level, and alignment), and anchor securely in place with rebar.

For End Outlet: Open the end outlet fitting using a hole saw. Attach the end outlet with screws to the deep end and the end cap on the shallow end. Be sure to allow for sufficient slab thickness above the outlet and pipe.

For Bottom Outlet: Using a hole saw, open the bottom outlet in the deep end and install end caps on channel ends.



### Assemble Channels

Beginning at the outlet end, connect the channels together in order. Silicone sealant can be used in the groove/joint if desired.

If Using Iron Grate Frames or SS Edge Guards: Remove the construction covers and install grate frames or edge guards. Reinstall the construction covers in the frames or guards.

Slide the construction covers (downstream) such that they overlap the joint - this will help prevent misalignment at the joints.



## Anchor with Rebar

Beginning at the outlet end, install rebar into the anchor clips on either side of the channel and drive rebar into the ground. Adjust channel, checking for elevation, level, and alignment using the string line as a guide. The top of the channel should be set  $\sim 3/16"$  below finish slab level.

When the channel is in proper position, secure the rebar into the anchor clips using screws or tie-wire to lock in place.

Continue the installation with upstream sections, setting with rebar, checking for elevation, level, and alignment until all channel sections are set.



## Set with Concrete

Confirm all channels are in final position and anchored with rebar and screws (wire) in ALL available anchor clips to keep the run as secure as possible. Be Sure:

- Channels will be encased in concrete (4" min.)
- Expansion joints will be installed on each side
- Channel is recessed  $\sim 3/16"$  below the finish slab

Connect drain piping to the catch basin or channel outlet according to plans. Use a No-Hub coupling to connect to channel outlet, or a connection adapter for the catch basin.

Set concrete "pads" around rebar, under and on sides of the basin/channels to prevent movement or misalignment.

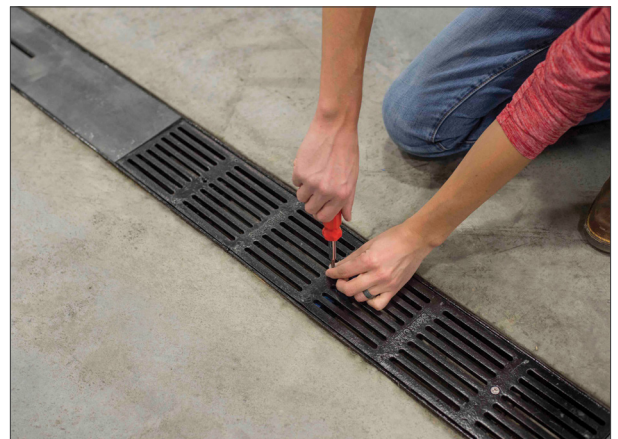
Pour the concrete slab around the installation and vibrate to eliminate voids in the pour.



## Final Inspection

After the concrete takes final set (24 hrs. min), remove the construction covers. Inspect the installation to be sure channels and drain piping are free of debris.

Set appropriate grating in place and secure the grates into the grate anchors using screws.





## Installation Guide

- Installation diagram below should be used as a guide only. Always consult local codes for specific requirements regarding trench drain installation in your area before beginning.
- Begin installation from the outlet point, connecting the system to the drainage line, then work upstream.
- If desired, silicone or other compatible sealant can be applied in the joints to help keep the system watertight.
- FastTrack systems require full concrete encasement on three sides, regardless of surface material/finish. See table (below, right) for dimensions.
- Concrete encasement must completely surround the channel. Aggregate stone used must be no larger than #57. Be sure concrete fills into all spaces between, around, and under the channel's structural ribs, with no voids or air pockets.
- Install expansion joints on both sides of, and parallel to the channel, per specifications
- To avoid any potential deformation of the channel, construction covers or grating must be in place during the concrete encasement pour, and remain in place until encasement sets.
- Ductile iron grate frame (shown below) is required for Load Class D400 and F900. Frame is optional for Load Class A15 – C250
- Finished grate level should be ~3/16" below finished slab level and slab should be sloped toward the channel on both sides to promote proper drainage

Encasement Dimensions (According to Calculation)	
LOAD CLASS	DIMENSION X
Class A15	4" (MIN 4,000 PSI)
Class B125	6" (MIN 4,000 PSI)
Class C250	6" (MIN 4,000 PSI)
Class D400	8" (MIN 4,000 PSI)
Class E600	10" (MIN 4,000 PSI)
Class F900	10" (MIN 4,000 PSI)

