



# ClearLine Linear Trough Drain

DS-CLEARLINE-042420

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## 1. PRODUCT NAME

FinPan ClearLine Linear Trough Drain

## 2. MANUFACTURER

Fin Pan, Inc.

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Hamilton, OH 45015

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## 3. PRODUCT DESCRIPTION

ClearLine Linear Trough Drains offer the ability to incorporate a trough drain with the ClearPath Curbless Shower Pan System. ClearLine comes complete with the ClearLine Trough, Trough Grate, L-Trim and bonding tape. ClearLine is available in a 60" length and can be modified down to any size.

\*Drain Grate sold separately.

**Recommended Tools:** Multi-Tool with Carbide Tipped Blade or Hack Saw for cutting trough/grate. 3M™ Red Soft Scour Sponge Scouring Pad for buffing out edges.

**Materials:** Stainless Steel

### Advantages

- Eliminates structural modifications to floor joists or TGI's.
- Easily modified to size on site.
- Internally sloped trough eliminates any stagnant water.
- Installs over the drain plate with thinset and is flush with tile.

### Uses

- Residential, commercial and industrial showers
- Stalled gang showers

### Suitable Substrates

- Wood or steel floor joists
- TGI's or engineered joist systems

### ClearLine Trough Models

CL-LD-60 / 60" ClearLine Trough Drain

CL-G-60-LS / 60" Long Slot Grate

CL-G-60-VS / 60" Vertical Slot Grate

CL-G-60-SMRECTS / 60" Small Rectangles Grate

### Shelf Life

- ClearLine is guaranteed if there is no damage to product. Store at 32°-110° F (0°-43° C)

### Limitations

- Subfloor must meet local building code requirements and Tile Council of North America (TCNA) guidelines.
- Maximum distance from drain is four feet (4') with a one and one quarter inch (1 ¼") subfloor assembly. Larger pans may require additional subfloor height.

### Cautions

Consult MSDS for safety information.

- Appropriate precautions should be taken when modifying ClearLine Trough and Grate.

## 4. TECHNICAL DATA

See ClearPath Data Sheet for more information.

## 5. INSTALLATION

**This is complete ClearPath Curbless Shower Pan Installation Guide. ClearLine only requires a few changes to traditional installation and will be **BOLDED** in instructions.**

- Determine area for shower pan installation.
- Cut and remove subfloor in shower area. Reveal of subfloor from sill plate may not exceed ¾" (.75").
- Confirm location of the drain and move if necessary.
- Block around the drain with two (2) pieces of 2 x 4 lumber.
  - Top of blocking is to be set ¼" below the top of the joist.
  - Blocking needs to be 12 3/16" (12.1875") o/c.
- Fasten ClearPath drain plate to the 2 x 4 blocking using four (4) 1 5/8" screws.
- Match 2" I.D. schedule 40 pipe type (PVC or ABS) of the drain plate to drain stub.
- Apply a liberal coat of PVC or ABS cleaner and solvent cement to the drainpipe and inside the drain where the connection will be made. (If plumber is making the connection this step can be performed after the pan is installed).

- The ends of TI-ProBoard must be fully supported by at least one half of a joist. If not, additional blocking must be installed.
- L-angle pieces are used as a precaution and should be installed around the perimeter of the shower to catch and support small amounts of mortar during mortar application.
  - If no voids exist after TI-ProBoard installation, L-angle may not be needed.
- TI-ProBoard must be installed perpendicular to the joist.
- Start with pieces that butt into the drain plate.
- Measure, cut and dry-fit TI-ProBoard to the shower floor opening.
- TI-ProBoard must land on at least three (3) joists or end blocking.
- Screw down TI-ProBoard starting with boards on the drain plate.
- Use two (2) of the screws to fasten TI-ProBoard to drain plate on each butt edge.
- Using the screws, work from center out to each edge.
- Place one (1) screw on each of the marked channels on each joist.
- Install ½" (.5") ProPanel Lightweight Waterproof or ProTEC/Util-A-Crete Concrete Backer Board around the perimeter of pan and on top of floor joists to establish level of existing floor area.
- **Unbox trough, grate and two (2) L-Trim pieces and tape together. L-Trim pieces should be placed to outside of trough.**
- **Cut trough and grate to appropriate length.**
- **Smooth cut edges with 3M Red Soft Scour Sponge Scouring Pad.**
- **Insert ClearLine Trough and Grate into center of Drain Plate.**
- **Trace outside of trough and grate location on Drain Plate and TI-ProBoard using a permanent marker.**
- **Test fit tile to drain grate to determine appropriate depth of mud-bed at finished L-Trim pieces.**
- \* If, during fitting, it is determined that the level of the mud-bed needs to sit above the Drain Plate, please refer to later instructions on using the supplied liquid waterproofing.
  - **Remove ClearLine trough and grate and store for later use.**
  - **Cut a ½" piece of backerboard to the finished length and 3" wide to match the overall finished width and length of ClearLine Trough, Grate and L-Trim pieces.**

- Prepare 4-1 Sand/Mortar Mix with water. Sand/cement should comply with ANSI 108.1B.
- Mixture should be workable to allow it to pack into the dovetail ribs of TI-ProBoard.
- **Fill mortar to top of ribs inside area where trough will be installed. See permanent marker lines.**
- **Completely fill the dovetail ribs which will strengthen the floor.**
- **Install backerboard cut piece over area where trough will be installed.**
- **Using a screed, establish a slope for the mortar between the edge of the surrounding floor and the predetermined height at L-Trim piece.**
- **Remove backer board cut piece.**
- Allow mortar to set.
- Clean shower area free of any loose dust and mortar.
- Apply modified thin-set to the substrate by using a 3/16" V-notched trowel.
- Fit the PE membrane to the shower area allowing a minimum of 6" up the wall and extending at least 2" outside of the shower area.
- Press the PE membrane into the thinset by using the flat side of the trowel ensuring 100% contact with the substrate.
- Make certain to press out any air pockets and install with folded or tucked corners.
  - Run trowel over fabric in a diagonal direction.
- The edges of adjoining PE membrane sections have to overlap by at least two inches (2").
- Cut out hole for the center of drain plate.
- \* **If the mud-bed rests on the Drain Plate, apply the supplied liquid waterproofing to the cut out hole, exposed mud-bed and a small portion of the drain body in two coats to ensure continuous waterproofing.**
- **Apply provided bonding tape to bottom of ClearLine Trough.**
- **Apply modified thinset to area where ClearLine Trough and L-Trim pieces will be installed.**
- **Install the two (2) provided L-Trim pieces on the outside edge of ClearLine Trough, leaving a gap to allow Trough Grate installation and removal.**
- **Ensure that ClearLine Trough is installed with pitch to drain.**

#### Wall Board Installation:

- Concrete backer board must be installed with a waterproof membrane either behind the board or applied to the surface. ProPanel is waterproof so this step is not necessary.

- Leave a ¼" gap between the top of the shower floor and the bottom of concrete backer board or ProPanel.
- Install backer board per TCNA guidelines ensuring that the membrane on the backer board wall overlaps the PE membrane.

#### **Tile Installation Detail**

- Install tile using a modified thinset and in accordance with the Tile Council of North America (TCNA) guidelines.

### **6. AVAILABILITY AND COST**

#### **Availability**

Fin Pan products are available worldwide.

#### **For Distributor information call:**

Toll Free: 1-800-833-6444

Telephone: 1-513-870-9200

**Cost:** Contact a Fin Pan Distributor in your area

### **7. WARRANTY**

Contact Fin Pan

### **8. MAINTENANCE**

ClearLine requires no maintenance. Drain grate should be removed periodically to remove any debris from trap.

### **9. TECHNICAL SERVICES**

#### **Technical Assistance**

Information is available by calling Fin Pan Monday thru Friday from 8:00 AM to 5:00 PM EST.

#### **Technical and Safety Literature**

Please visit our website at [www.finpan.com](http://www.finpan.com).

### **10. FILING SYSTEM**

Information is available at [www.finpan.com](http://www.finpan.com).