MultiDrain®
STEEL TRENCH DRAIN SYSTEM

Surface Drainage Solutions
Civil • Commercial • Industrial • Ports • Airports

www.multidrainsystems.com
www.ARCAT.com
www.sweets.com
**MultiDrain®**

MultiDrain® is a pre-engineered steel liner trench drain system. The system consists of metal former liners, adjustable EZ Grate Frame, anchor stands, frame anchorage into the surrounding concrete and grates. MultiDrain is versatile with interior channel widths ranging from 5-13/16” and up to 23-13/16” (see the chart on page 3). The system includes EZ Frame with an adjustable feature allowing each channel to be either neutral in slope or adjusting up to 1% slope. For faster installation and labor savings, channel sections are manufactured 8 feet long and includes overlapping connectors which may be sealed using a flexible caulk or field welding.

MultiDrain complemented by in-line catch basin and modular catch basin assemblies. The modular design of the MultiDrain system provides true on-site adaptability and cuts down overall project costs by reducing excess materials and labor.

**Environmental**

With today’s demands on capturing and conserving water, MultiDrain is ideal for channeling water runoff to where it can be reprocessed for potable water, assist in erosion control, channeling water for safety purposes and containment for industrial uses.

MultiDrain is often the choice of engineers for many applications such as civil, industrial, DOT, airports, intermodal and many other areas where containment or channeling water is necessary. For chemical resistance, please go to the MultiDrain website and see the “MultiDrain Steel Trench Drain - Chemical Resistance Guide”.

**Pre-Engineered System**

Wood forming requires expensive labor with well-trained carpenters to build forms precisely to meet the grating and the engineer’s specifications. The carpenter must be able to hold the tolerance for the grate width, build-in the trench slope, and keep the trench straight and aligned. Once the concrete is placed, wood forms must be removed and discarded. The contractor may need to touch-up, or build a radius with grouting.

MultiDrain is pre-engineered therefore eliminating the need for carpenters. The channels are 8’ long and designed to butt end to end by overlapping steel connections keeping the channels aligned and straight. Channels are manufactured to the proper width spacing to receive the grating designed for the application. With smooth steel finish and 0% up to 1% slope built in, MultiDrain is designed for better hydraulics.

**Steel Channel**

MultiDrain’s unique feature is the Steel Channel construction. Steel channels make a tough, durable and easy to install trench drain liner. Channel options include 16 gauge and 18 gauge steel, and is available with galvanized finish, 304 stainless steel or 316 stainless steel.

**EZ Frame**

The patented EZ grate frame is adjustable to allow the channels to be adjusted in the field for a slope up to 1%. Channels comes in the standard galvanized steel and optional stainless steel. Select the best frame material for your application or adhere to the professional engineer’s specification. All frames are independently anchored into the surrounding concrete so that the encapsulation concrete receives the horizontal loads, not the channel walls.

**Grating**

A variety of gratings and cover options are available to provide load capabilities from pedestrian, ADA and up to large aircraft and severe point loads. Grating options include cast iron, ductile iron, FRP, galvanized and stainless steel bar grates. Iron grates can be galvanized to meet many commercial and industrial needs.

**Engineered for Fast and Easy Installation**

Patented EZ Rebar Anchor stands provide quick installation, leveling, grade adjustment and resists floating during concrete pour. Drive #4 rebar (supplied by others) through the anchor stands to anchor and level the MultiDrain steel channels.

Channels are well-marked with arrows showing the direction of slope. Each channel is labeled with a number showing the numerical sequence.
#4 Rebar Anchors *Supplied by Others

Metal Channels with an Overlapping Connection may be
Sealed using a Flexible Caulk by Field Welding
Adjustable Slope from 0% to 1% for Optimum Fluid Velocity

<table>
<thead>
<tr>
<th>Channel Size</th>
<th>Channel Width X (inches)</th>
<th>Channel Depth Y (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>5-13/16&quot;</td>
<td>6&quot; min. / 22&quot; max.</td>
</tr>
<tr>
<td>8</td>
<td>7-13/16&quot;</td>
<td>6&quot; min. / 20&quot; max.</td>
</tr>
<tr>
<td>12</td>
<td>11-13/16&quot;</td>
<td>6&quot; min. / 18&quot; max.</td>
</tr>
<tr>
<td>18</td>
<td>17-13/16&quot;</td>
<td>6&quot; min. / 15&quot; max.</td>
</tr>
<tr>
<td>24</td>
<td>23-13/16&quot;</td>
<td>6&quot; min. / 12&quot; max.</td>
</tr>
</tbody>
</table>

E-Z Frame

- A-36 Steel, Galvanized
- 304 Stainless Steel
- 316 Stainless Steel

Steel Channel

- 16 Gauge (0.0598")
- 18 Gauge (0.0478")
- Galvanized Finish
- 304 Stainless Steel
- 316 Stainless Steel

Grating

- Pedestrian Loading
- H-20 Loading
- Bar Grating
- Cast Grating
- FRP Grating

Grating Finish

- Galvanized
- 304 Stainless Steel
- 316 Stainless Steel
- Painted
- Uncoated

Patented EZ Grate Frame
Standard Finish: Galvanized
Stainless Steel Grate Frame Optional

Patented EZ Rebar Anchor Stand Installation
Provides Quick Leveling and Grade Adjustment
Resists Floating During Concrete Pour
Saves Time and Money

Grate Frame Spacer Bars Require Minimal
Assembly with Grate Lock Down Hole

Galvanized and Stainless Steel Bar
Grates are Optional

*Chemical Resistance - For more details see the “Chemical Resistance Guide”
We Help You Plan for Rainy Days

Applications
♦ Civil
♦ Loading Docks
♦ Airports
♦ Ports
♦ Mechanical & Industrial
♦ Petrochemical
♦ Intermodal
♦ Department of Transportation
♦ Military
♦ Containment
♦ Fire Stations
♦ Food & Beverage

Distributed By

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