Interceptor®
Pre-Engineered Surface Drainage

Installation Guide

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# USEFUL OR REQUIRED TOOLS

## COMPONENT IDENTIFICATION

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<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>PolyDrain® Channel</td>
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<tr>
<td>2</td>
<td>Pipe Stub Outlet Adaptor Plate</td>
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<tr>
<td>3</td>
<td>Plain End Plate</td>
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<td>4</td>
<td>Pipe Insert Outlet Adapter Plate</td>
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<td>5</td>
<td>Vertical PVC Outlet</td>
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<tr>
<td>6</td>
<td>Grate</td>
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<tr>
<td>7</td>
<td>Frame</td>
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<td>8</td>
<td>Frame Anchor</td>
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<td>9</td>
<td>PolyClip I™ (Optional)</td>
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<td>10</td>
<td>PolyClip II™ (Optional)</td>
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<td>11</td>
<td>Rebar U-Leg (Optional)</td>
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</table>
1. FORMING MITER JOINTS

2. PIPE CONNECTION / PREFORMED CUTOUT REMOVAL

3. HORIZONTAL AND VERTICAL OUTLET/CLOSED END PLATES
**INSTALLATION PREPARATION**

4. EXCAVATION

T = Per Structural Engineer, 6" [150 mm] Minimum

5. SYSTEM LAYOUT

6. EXPANSION/CONTROL JOINTS

7. GRATE INSTALLATION PRIOR TO CONCRETING
**Important Installation Notes:**
1. Begin Installation at Outlet/Discharge End and Work Backwords (Upstream).
2. Piping Connections, Catch Basin Installation, Miter Joint Assembly, and Trench Excavation Must be Completed Prior to Channel Installation.
3. Set String Line to Finished Slab Height at Outside Edge of Proposed Channel Location.
4. There are (3) Recommended Methods of PolyDrain® Channel Installation:
   A. PolyClip I Installation Device
   B. PolyClip II Installation Device.
   C. Suspended Installation

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**8A. CHANNEL INSTALLATION WITH POLYCLIP™**

- **PolyClip™ Bracket**
- **Covered Grates to Ensure Proper Alignment. Refer to Step 7.**
- **Bracket Spans Channel Joint**
- **Back Wingnut to End of Threaded Crossrod and Spread Clips to Limit. Position Bracket as Shown and Tighten Wingnut.**
- **Adjust U-Leg to Achieve Proper Slab Height**

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**8B. CHANNEL INSTALLATION WITH POLYCLIP II™**

- **5/16-18 UNC Bolt - Ø1/2" Hole Required in 2 X 4**
- **2" X 4" Board**
- **5/16-18 UNC Threaded Rod**
- **Toggle**
- **PolyWall® Anchor**
- **1/8" Shim (Both Sides)**

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**8C. CHANNEL INSTALLATION BY SUSPENSION METHOD**

- **Toenail PolyClip I to Ground with #3 or #4 Rebar, or use Anchor Slab.**
- **Screw to Deck Form for Elevated Slab**
- **Bracket Spans Channel Joint**
- **Loosen Nuts to Slide Securing Clips Apart. Place Channel on Base.**
- **Rebar (Anchor Slab Optional)**
1. ADJACENT CONCRETE PLACEMENT

2. EXPANSION JOINT MATERIAL PER STRUCTURAL ENGINEER

3. HOOK GRATE UNDER FRAME

4. DRIVE PIN

5. ENCAPSULATION CONCRETE PLACEMENT AND CONSOLIDATION

6. USE VIBRATOR TO CONSOLIDATE CONCRETE

7. BATTER BOARDS AS REQUIRED

8. PLACE EVENLY BOTH SIDES. DO NOT CHUTE DIRECTLY AGAINST CHANNELS.

9. END OF RUN - END PLATE INSTALLATION

10. EXPANSION JOINT MATERIAL PER STRUCTURAL ENGINEER

11. SLIDE LATCH TO LOCK

12. GRATE RETENTION
OPTIONAL OUTLET CONNECTIONS

MITER OUTLET CONNECTION

- Typ. Frame for Drop Inlet Grate
- Drop Inlet/Manhole Wall
- Solid Cover
- Filler
- Encasement Concrete

ESP OUTLET CONNECTION

- Remove EPS Foam Past Inside Surface of Structure and Seal Surrounding Area with Forming
- Bricks Top of Catch Basin
- ESP Foam Former
- Slide ESP Foam Former into Channel Until Seal is Formed.

CATCH BASIN INSTALLATION

- Concrete Bed or Brick Spacers
- Optional PolyWall®
- 900 Series Catch Basin

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