Linear Drainage System
Z882 Pre-Sloped Polyethylene
12-inch Heavy-Duty Performance Drainage Solutions

Labor Savings
- Save up to 75% installation time compared to cast-in-place systems while maintaining structural integrity
- Longer, lightweight pieces allow for lower job site inventory, ease of system alignment, and reduced worker fatigue
- Easy to clean with no specialized tools needed

Versatility
- Appropriate for applications requiring loading from DIN EN-1433 pedestrian Class A to 200,000 lb wheel-loading Class F, including FAA
- Heavy-duty frame available in galvanized steel, stainless steel, and structural steel
- Factory installed sidewalls enable longer runs and increased hydraulic capabilities
- Unique system features provide superior flow rate

Quality
- HDPE is a highly impact-resistant material; dropping channels, and other impacts are much less likely to result in jobsite or shipping breakage
- Standardized hardware makes replacement a fast and hassle-free process
ENGINEERING SPECIFICATION: Zurn Z828 Channels shall be 96 [2438] long, 12 [305] wide reveal and have a 9.25 [235] throat. Modular channel sections shall be made of 0% water absorbent High Density Polyethylene (HDPE). Shall have a positive mechanical connection between channel sections that will not separate during the installation and shall mechanically lock into the concrete surround every 12[305]. Channels shall weigh less than 5.05 lbs.[2.29kg] per linear foot, have a smooth, 3[76] radiused self cleaning bottom with a Manning's coefficient of 0.009 and 1.04% or neutral 0% built in slope. Channels shall have rebar clips standard to secure trench in its final location. Shall be provided with standard DGC grates that lock down to frame. Zurn 12 [305] wide reveal Ductile Iron Slotted Grate conforming to ASTM specification A536-84, Grade 80-55-06. Ductile Iron grate is rated class C per the DIN EN1433 top load classifications. Supplied in 24[608] nominal lengths with 0.81[21] wide slots, and 1.5[38] bearing depth. Grate has an open area of 57.50 sq. in per ft.[121708 sq. mm per meter]. The 0.25[6] thick Heavy Duty Carbon Steel Frame Assembly conforms to ASTM specification A36 with 10 - 4[102] long concrete anchors per 96 [2438]. Grate lockdown bars are to be integral to the frame and E-coated finish with 3000hr salt spray testing per ASTM B-117. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames Shall be produced in the USA.

Zurn Perma-Trench 12" Linear Drainage

ACCESSORIES and FINISHES

GRATE OPTIONS
-ADA Meets American with Disabilities Act Requirements (USA Only)
-BDC Black Acid Resistant Epoxy Coated Ductile Grate - Class C
-BDE Black Acid Resistant Epoxy Coated Ductile Grate - Class E (USA Available)
-DC Ductile Iron Solid Cover
-DGC Ductile Iron Slotted Grate - Class C (USA Available)
-DGE Ductile Iron Slotted Grate - Class E (USA Available)
-DGF Ductile Iron Slotted Grate - Class F
-FS Fabricated Stainless Steel Slotted Grate (USA Only)
-GADA Galvanized Ductile ADA Slotted Grate - Class C (USA Only)
-GDC Galvanized Ductile Slotted Grate - Class C (USA Available)
-GDE Galvanized Ductile Slotted Grate - Class E (USA Available)
-GDF Galvanized Ductile Slotted Grate - Class F
-GG Fiberglass Grate
-GHPD Galvanized Heel-Proof Ductile Grate
-HPD Heel-Proof Ductile Slotted Grate
-PG Perforated Galvanized Steel Grate (USA Only)
-PS Perforated Stainless Steel Grate (USA Only)
-RFG Reinforced Galvanized Slotted Grate (USA Only)
-RFS Reinforced Stainless Steel Slotted Grate (USA Only)
-RPG Reinforced Galvanized Perforated Grate (USA Only)
-RPS Reinforced Stainless Steel Perforated Grate (USA Only)
-SBG-L Stainless Steel Bar Grate (USA Only)

SUFFIX OPTIONS
Outlet Adapters
-E1 Closed End Cap
-E4 4" No-Hub End Outlet
-E6 6" No-Hub End Outlet
-E8 8" No-Hub End Outlet
-U4 4" No-Hub Bottom Outlet
-U6 6" No-Hub Bottom Outlet
-U8 8" No-Hub Bottom Outlet

MISCELLANEOUS OPTIONS
-VP Vandal-Proof Center Lockdown
-JC Joint Connector

Common Applications
-Industrial Parks
-Airplane Hangars
-Highways
-Airports
-Parking Lots
-Gas Stations
-Water Parks
-Port Facilities
-Pharmaceuticals
-Food Processing
-Chemical Plants

Dimension in Inches [mm]

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<th>Trench No.</th>
<th>A</th>
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<th>Flow Rate* (gpm)</th>
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*Adding sidewalls increases flow capacity.