



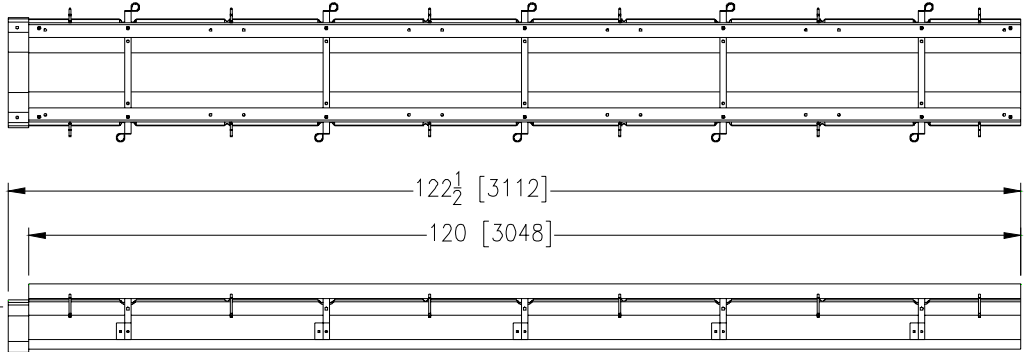
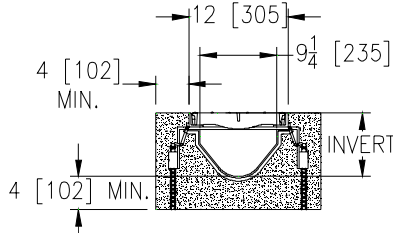
Z812-HDG

12 [305] WIDE REVEAL FIBER REINFORCED POLYMER TRENCH DRAIN SYSTEM WITH GALVANIZED STEEL FRAME

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice

SPECIFYING ENGINEER IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING BASED UPON APPLICATION AND LOCAL CODES



NOTE: + Actual Channel length is 122 1/2 [3112] to allow for overlap.

ENGINEERING SPECIFICATION: Zurn Z812-HDG

Channels shall be 120 [3048] long, 12 [305] wide reveal and have a 9-1/4 [235] throat. Modular channel sections shall be made of Fiber Reinforced Polymer (FRP). 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 .009 and 1.04% or neutral 0% built in slope. Channels shall have all grates locked down. Shall be provided with the standard GDC grate that locks down to the frame. Zurn 12 [305] wide reveal Galvanized Ductile Iron Slotted Grate. Ductile Iron conforms to ASTM specification A536-84, Grade 80-55-06. Galvanized Ductile Iron grate is rated class C per the DIN EN1433 top load classifications. Supplied in 24 [608] nominal lengths with 13/16 [21] wide slots, and 1-1/2 [38] bearing depth. Grate has an open area of 57-1/2 sq. in per ft.[121708 sq. mm per meter]. The 1/4 [6] thick Galvanized Carbon Steel Frame Assembly conforms to ASTM specification A36 and Galvanizing conforms to ASTM specification A123 with 12-4 [102] long concrete anchors per 120 [3048]. Grate lockdown bars are integral to the frame. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames Shall be produced in the USA.

PREFIX OPTIONS (Check/specify appropriate options)

- Z Ten-foot Fiber Reinforced Polymer (FRP) Channel *
- ZV Ten-foot Fiber Reinforced Vinylester Channel

SUFFIX OPTIONS (Check/specify appropriate options)

Outlet Adapters Add/Each

- E1 Closed End Cap
- E4 4 [102] No-Hub End Outlet
- E6 6 [152] No-Hub End Outlet
- E8 8 [203] No-Hub End Outlet
- U4 4 [102] No-Hub Bottom Outlet
- U6 6 [152] No-Hub Bottom Outlet
- U8 8 [203] No-Hub Bottom Outlet

Frame Options

- SW Sidewall Extensions - 10-3/4 [273] High

Grate Options (Load Classifications are per DIN EN1433)

- DC Ductile Iron Solid Cover - Class C
- DGC Ductile Iron Slotted Grate - Class C
- DGE Ductile Iron Slotted Grate - Class E
- DGF Ductile Iron Slotted Grate - Class F
- GDC Galvanized Ductile Slotted Grate - Class C *
- GDE Galvanized Ductile Slotted Grate - Class E
- GDF Galvanized Ductile Slotted Grate - Class F
- GHPDE Galvanized Heel-Proof Ductile Slotted Grate - Class E
- HPD Heel-Proof Ductile Slotted Grate - Class C
- HPDE Heel-Proof Ductile Slotted Grate - Class E

| Trench No. | 'A' Shallow Inv. | 'B' Deep Inv. | Flow | | |
|------------|------------------|---------------|-------|-------|-------|
| | | | (cfs) | (gpm) | (lps) |
| 2001 | 6.25 [159] | 7.50 [191] | 1.299 | 583 | 37 |
| 2002 | 7.50 [191] | 8.75 [222] | 1.910 | 857 | 54 |
| 2002N | 8.75 [222] | 8.75 [222] | - | - | - |
| 2003 | 8.75 [222] | 10.00 [254] | 2.548 | 1144 | 72 |
| 2004 | 10.00 [254] | 11.25 [286] | 3.205 | 1438 | 91 |
| 2004N | 11.25 [286] | 11.25 [286] | - | - | - |
| 2005 | 11.25 [286] | 12.50 [318] | 3.874 | 1739 | 110 |
| 2006 | 12.50 [318] | 13.75 [349] | 4.552 | 2043 | 129 |
| 2007 | 13.75 [349] | 15.00 [381] | 5.236 | 2350 | 148 |
| 2008 | 15.00 [381] | 16.25 [413] | 5.925 | 2659 | 168 |
| 2008N | 16.25 [413] | 16.25 [413] | - | - | - |
| 2009 | 16.25 [413] | 17.50 [445] | 6.619 | 2970 | 187 |
| 2010 | 17.50 [445] | 18.75 [476] | 7.315 | 3283 | 207 |

Miscellaneous Options

- JC Joint Connector
- RC Rebar Clip (Set of 2)
- VP Vandal-Proof Lockdown

MADE in the U.S.A.

- ADA-USA Meets Americans with Disabilities Act Requirements - Class C
- BG Galvanized Steel Bar Grate - Class D
- DGC-USA Ductile Iron Slotted Grate - Class C
- DGE-USA Ductile Iron Slotted Grate - Class E
- FG Fabricated Galvanized Steel Slotted Grate - Class A
- GADA-USA Galvanized Ductile ADA Slotted Grate - Class C
- GDC-USA Galvanized Ductile Slotted Grate - Class C
- GDE-USA Galvanized Ductile Slotted Grate - Class E
- PG Perforated Galvanized Steel Grate - Class A
- RFG Reinforced Galvanized Slotted Grate - Class B
- RPG Reinforced Galvanized Perforated Grate - Class B Class B

Miscellaneous Options

- DB Bottom Dome Strainer

Supplied By:



877-903-7246

www.trenchdrainsupply.com

REV. C DATE: 10/18/11 C.N. NO. 122296

DWG. NO. 302127

PROD. NO. Z812-HDG

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