

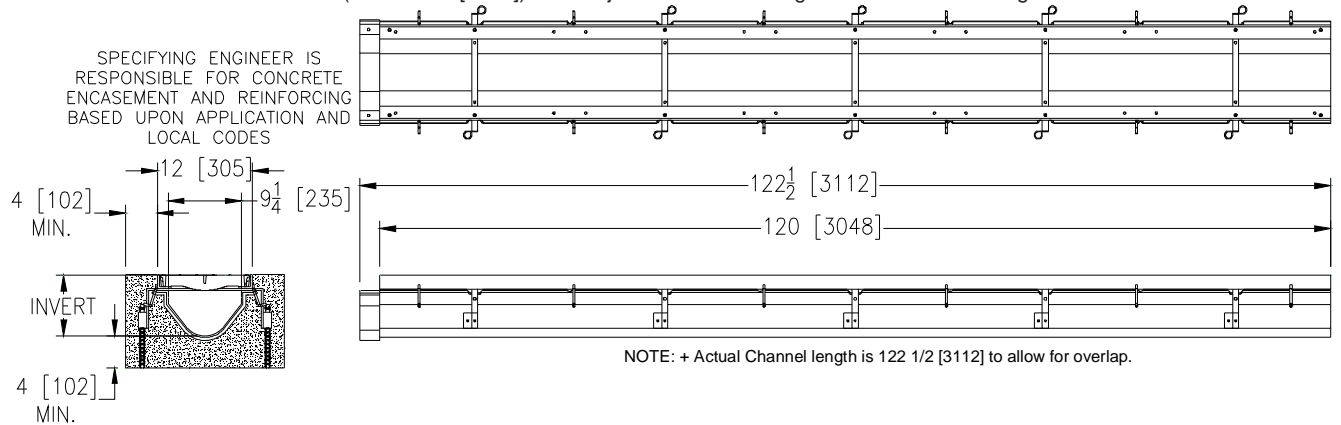


# Z812-HDS

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

TAG \_\_\_\_\_

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



**ENGINEERING SPECIFICATION: Zurn Z882-HDS**

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 RFS grates that lock down to the frame. Zurn 12 [305] wide reveal Stainless Steel Reinforced Slotted Grate conforming to ASTM specification A351, Grade CF8 (type 304), Fabricated grate is rated class B per the DIN EN1433 top load classification. Supplied in 24 [608] nominal lengths with 3/8 [10] wide slots, 1-1/2 [38] bearing depth. Grate has an open area of 25.61 sq. in. per ft [54207 sq. mm per meter]. Tie down recesses provided for securing option. The 1/4 [6] thick Stainless Steel Frame Assembly conforms to ASTM specification A-240 (type 304), 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 D1.6. 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
- GG Fiberglass Grate - Class A
- HPD Heel-Proof Ductile Slotted Grate - Class C
- HPDE Heel-Proof Ductile Slotted Grate - Class E
- RFSC Reinforced Slotted Stainless Steel Grate - Class C
- RPSC Reinforced Perforated Stainless Steel Grate - Class C
- RPSRC Reinforced Perforated Stainless Steel Reversed Punch Grate - Class C

| 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
- DGC-USA Ductile Iron Slotted Grate - Class C
- DGE-USA Ductile Iron Slotted Grate - Class E
- FS Fabricated Stainless Steel Slotted Grate - Class A
- HPDE-USA Heel-Proof Ductile Slotted Grate - Class E
- PS Perforated Stainless Steel Grate - Class A
- RFS Reinforced Stainless Steel Slotted Grate - Class B\*
- RPS Reinforced Stainless Steel Perforated Grate - Class B
- SBG-L Stainless Steel Bar Grate - Class C

**Miscellaneous Options**

- DB Bottom Dome Strainer

REV. D DATE: 5/7/12 C.N. NO. 124226

PROD./DWG. NO. Z812-HDS

\*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

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