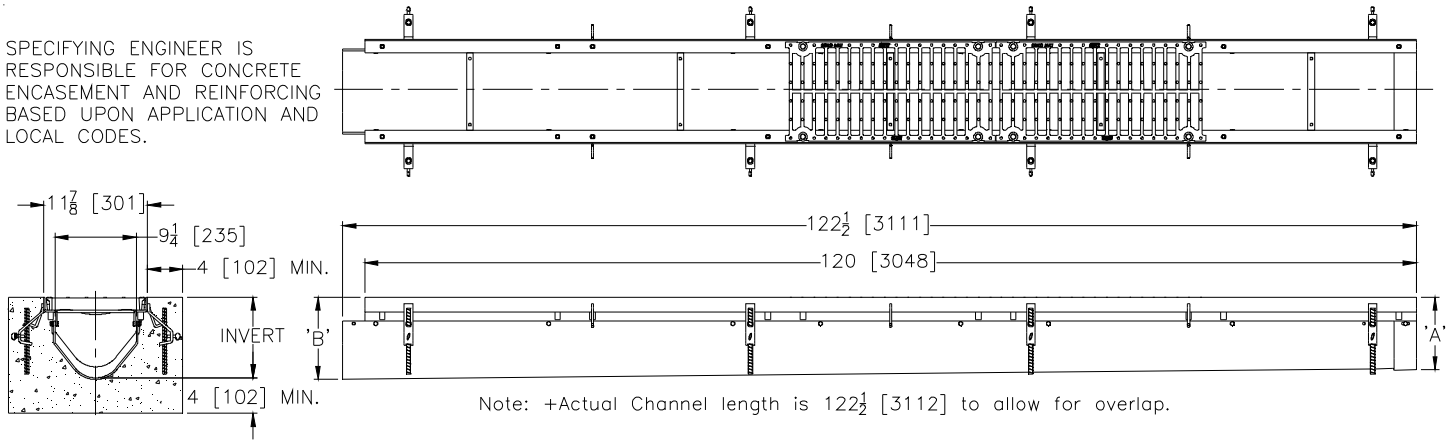
ZF812

12 [305] WIDE REVEAL FIBER REINFORCED POLYMER TRENCH DRAIN SYSTEM WITH 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.



ENGINEERING SPECIFICATION: Zurn ZF812

Channels are 120 [3048] long, 12 [305] wide reveal and have a 9-1/4 [235] throat. Modular channel sections are made of Fiber Reinforced Polymer (FRP), and have a positive mechanical connection between channel sections that will not separate during the installation. Channels weigh less than 5.05 lbs. [2.29 kg] 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 are provided with standard DGC grates that lock down to frame. Zurn 12 [305] wide reveal Ductile Iron Slotted Grate conforming to ASTM specification A536, Grade 80-55-06. Ductile Iron grate is rated class C per the DIN EN 1433 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 80.8 sq. in per ft. [171,027 sq. mm per meter]. The #7 gage thick Heavy-Duty Carbon Steel Frame Assembly conforms to ASTM specification A36. Frames shall mechanically lock into the concrete surround at a maximum spacing of every 21 [533], with 14 anchors per 120 [3048]. Frames have rebar attachment brackets as standard to secure trench to its final location. Grate lockdown bars are to be integral to the frame. The frame is supplied with a powder coated finish. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames and Channels shall be produced in the U.S.A.

PREFIX OPTIONS (Check/specify appropriate options)

- ☐ ZF Ten-foot Fiber Reinforced Polymer (FRP) *

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

- ☐ -CWF White Acid Resistant Coated Top Frame

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
- ☐ -GG Fiberglass Grate - Class A
- ☐ -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
- ☐ -RFGC Reinforced Slotted Galvanized Grate - Class C
- ☐ -RPGC Reinforced Perforated Galvanized Grate - Class C
- ☐ -RPGRC Reinforced Perforated Galvanized Reverse Punch Grate - Class C
- ☐ -RFSC Reinforced Slotted Stainless Steel Grate - Class C
- ☐ -RPSC Reinforced Perforated Stainless Steel Grate - Class C
- ☐ -RPSRC Reinforced Perforated Stainless Steel Reverse Punch Grate - Class C

Trench No.	'A' Shallow Inv.	'B' Deep Inv.	Flow		
			(cfs)	(gpm)	(lps)
2002	7.93 [201]	9.18 [233]	2.088	937	59
2002N	9.18 [233]	9.18 [233]	-	-	-
2003	9.18 [233]	10.43 [265]	2.730	1225	77
2004	10.43 [265]	11.68 [297]	3.388	1521	96
2004N	11.68 [297]	11.68 [297]	-	-	-
2005	11.68 [297]	12.93 [328]	4.058	1821	115
2006	12.93 [328]	14.18 [360]	4.736	2125	134
2007	14.18 [360]	15.43 [392]	5.420	2432	153
2008	15.43 [392]	16.68 [424]	6.109	2742	173
2008N	16.68 [424]	16.68 [424]	-	-	-
2009	16.68 [424]	17.93 [455]	6.802	3053	193
2010	17.93 [455]	19.18 [487]	7.498	3365	212

Miscellaneous Options

- ☐ -DB Bottom Dome Strainer
- ☐ -JC Joint Connector
- ☐ -VP Vandal-Proof Lockdown

Note:
The maximum fluid temperature through the system must not exceed 150°F [66°C] and the range (Max. Temp. to Min. Temp.) must not exceed 100°F [38°C].

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
- ☐ -FS Fabricated Stainless 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
- ☐ -GHPDE-USA Galvanized Heel-Proof Ductile Slotted Grate - Class E
- ☐ -HPDE-USA Heel-Proof Ductile Slotted Grate - Class E
- ☐ -PG Perforated Galvanized Steel Grate - Class A
- ☐ -PS Perforated Stainless Steel Grate - Class A
- ☐ -RFG Reinforced Galvanized Slotted Grate - Class B
- ☐ -RFS Reinforced Stainless Steel Slotted Grate - Class B
- ☐ -RPG Reinforced Galvanized Perforated Grate - Class B
- ☐ -RPS Reinforced Stainless Steel Perforated Grate - Class B
- ☐ -SBG-L Stainless Steel Bar Grate - Class C

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

REV. H DATE: 07/10/13 C.N. NO. 129604

PROD./DWG. NO. ZF812

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