



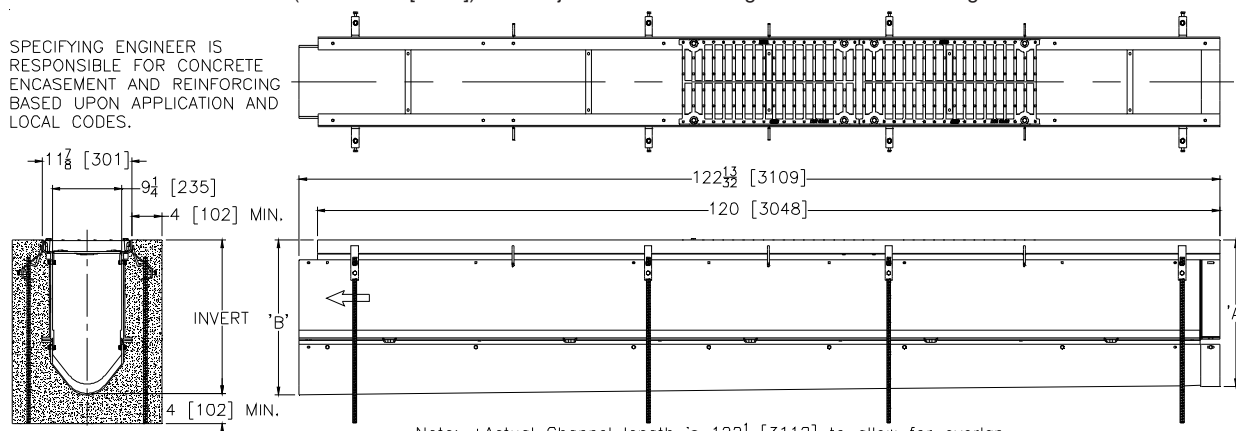
ZF812-SW

SPECIFICATION SHEET

12 [305] WIDE REVEAL FIBER REINFORCED POLYMER TRENCH DRAIN TAG SYSTEM WITH STEEL FRAME & 11-1/4 [286] SIDEWALL EXTENSION

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

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



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

ENGINEERING SPECIFICATION: Zurn ZF812-SW

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. 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 FRP side walls provided for an additional 11-1/4 [286] added to the standard channel invert for additional flow capability shown in chart below. 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, 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 81.1 sq. in per ft. [171,618 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 shall 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

Trench No.	'A' Shallow Inv.	'B' Deep Inv.	Flow		
			(cfs)	(gpm)	(lps)
2002-SW	19.18 [487]	20.43 [519]	8.197	3679	232
2002N-SW	20.43 [519]	20.43 [519]	-	-	-
2003-SW	20.43 [519]	21.68 [551]	8.897	3993	252
2004-SW	21.68 [551]	22.93 [582]	9.599	4308	272
2004N-SW	22.93 [582]	22.93 [582]	-	-	-
2005-SW	22.93 [582]	24.18 [614]	10.303	4624	292
2006-SW	24.18 [614]	25.43 [646]	11.008	4940	312
2007-SW	25.43 [646]	26.68 [678]	11.714	5257	332
2008-SW	26.68 [678]	27.93 [709]	12.421	5575	352
2008N-SW	27.93 [709]	27.93 [709]	-	-	-
2009-SW	27.93 [709]	29.18 [741]	13.129	5892	372
2010-SW	29.18 [741]	30.43 [746]	13.837	6210	392

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
 ___ -PG Perforated Galvanized Steel Grate - Class A
 ___ -PS Perforated Stainless Steel Grate - Class A
 ___ -RFG Reinforced Galvanized Slotted Grate - Class B

Miscellaneous Options

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

___ -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 B

REV. DATE: 11/12/11 C.N. NO. 122377

DWG. NO. 308126

PRODUCT NO. ZF812-SW

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

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