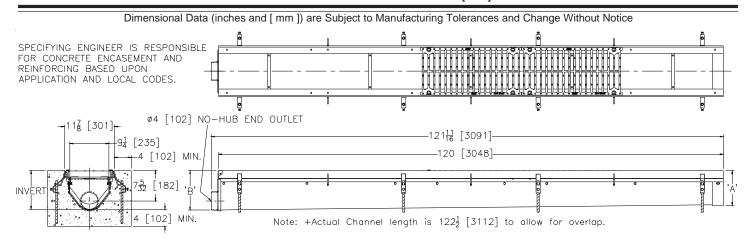


# ZF812-E4

**SPECIFICATION SHEET** 

12 [305] WIDE REVEAL FIBER REINFORCED POLYMER TRENCH DRAIN SYSTEM W/ STEEL FRAME & 4 [102] END OUTLET

TAG \_\_\_\_\_



#### **ENGINEERING SPECIFICATION:** Zurn ZF812-E4

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. Drainage system has Ø4 [102] No-Hub End Outlet. 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 80.6 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) \*

OUEEN ORTIONS (OL 17 17

# SUFFIX OPTIONS (Check/specify appropriate options)

### Frame Options

\_\_ -CWF White Acid Resistant Coated Top Frame

<b>Grate Options</b>	(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
	Heel-Proof Ductile Slotted Grate - Class E
	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
	Reinforced Perforated Stainless Steel Grate - Class C
-RPSRC	Reinforced Perforated Stainless Steel Reverse Punch Grate - Class (

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**

Bottom Dome Strainer
Joint Connector
Sidewall Extensions - 11-1/4 [286] High
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].

ADA-USA	Meets Americans with Disabilities Act	HPDE-USA	Heel-Proof Ductile Slotted Grate - Class E
	Requirements - Class C	PG	Perforated Galvanized Steel Grate - Class A
BG	Galvanized Steel Bar Grate - Class D	PS	Perforated Stainless Steel Grate - Class A
DGC-USA	Ductile Iron Slotted Grate - Class C	RFG	Reinforced Galvanized Slotted Grate - Class B
DGE-USA	Ductile Iron Slotted Grate - Class E	RFS	Reinforced Stainless Steel Slotted Grate - Class B
FG	Fabricated Galvanized Steel Slotted Grate - Class A	RPG	Reinforced Galvanized Perforated Grate - Class B
FS	Fabricated Stainless Steel Slotted Grate - Class A	RPS	Reinforced Stainless Steel Perforated Grate - Class B
GADA-USA	Galvanized Ductile ADA Slotted Grate - Class C	SBG-L	Stainless Steel Bar Grate - Class C
-GDC-USA	Galvanized Ductile Slotted Grate - Class C		

\*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

Galvanized Ductile Slotted Grate - Class E

-GHPDE-USA Galvanized Heel-Proof Ductile Slotted Grate - Class E

REV. B DATE: 03/25/13 C.N. NO. 129001

PROD./DWG. NO. ZF812-E4