

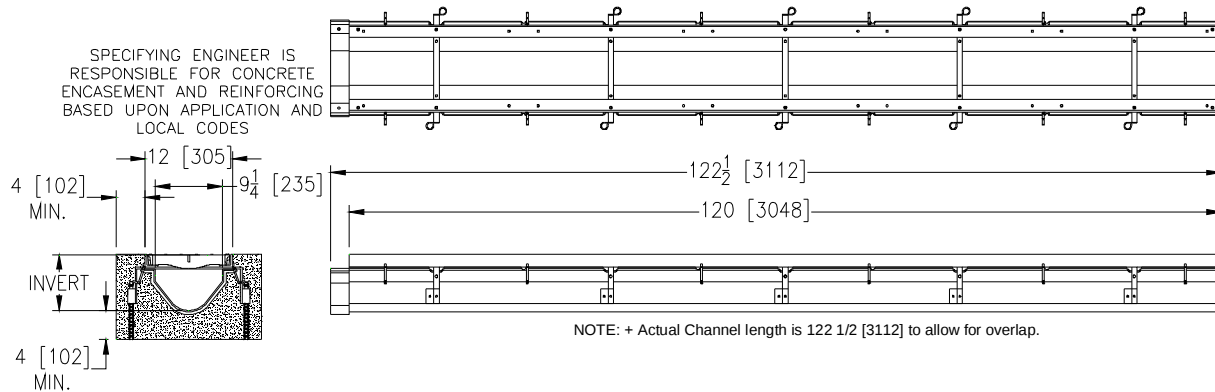
**Z812**

SPECIFICATION SHEET

**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

**ENGINEERING SPECIFICATION: Zurn Z812**

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. 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 A536-84, Grade 80-55-06. 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 80.80 sq. in. per ft. [171027 sq. mm per meter]. The 1/4 [6] thick Heavy-Duty Carbon Steel Frame Assembly conforms to ASTM specification A36 with 12-4 [102] long concrete anchors per 120 [3048]. 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 Shall be produced in the U.S.A.

PREFIX OPTIONS (Check/specify appropriate options)

- ___ Z Ten-foot Fiber Reinforced Polymer (FRP) Channel *
___ ZV Ten-foot Fiber Reinforced Viny Lester 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

- ___ -CBF Black Acid Resistant Coated Top Frame
___ -CWF White Acid Resistant Coated Top Frame
___ -SW Sidewall Extensions - 10-3/4 [273] High

Grate Options (Load Classifications are per DIN EN1433)

- ___ -BDC Black Acid Resistant Epoxy Coated Ductile Grate - Class C
___ -BDF Black Acid Resistant Epoxy Coated Ductile Grate - Class F
___ -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

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 Ductile Slotted Grate - Class E
___ -HPDE-USA Heel-Proof Ductile Slotted Grate - Class E
___ -PG Perforated Galvanized Steel Grate - Class A

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

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

- ___ -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

Miscellaneous Options

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

MADE in the U.S.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

Miscellaneous Options

- ___ -DB Bottom Dome Strainer

REV. Y DATE: 05/21/12 C.N. NO. 124404

PROD./DWG. NO. Z812

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