

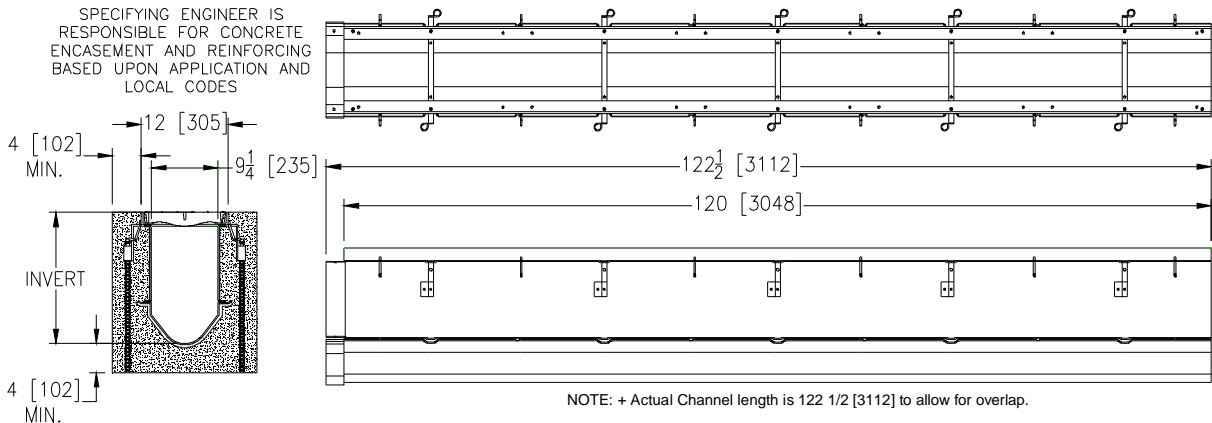


Z812-SW

SPECIFICATION SHEET

12 [305] WIDE REVEAL FIBER REINFORCED POLYMER TRENCH DRAIN TAG SYSTEM W/ STEEL FRAME & 10-3/4 [273] SIDEWALL EXTENSION

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



ENGINEERING SPECIFICATION: Zurn Z812-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 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 FRP SW Side Walls provided for an additional 10-3/4 [273] 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 A536-84, 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. [171,027 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 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

- CBF Black Acid Resistant Coated Top Frame
- 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

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)
2002SW	18.75 [476]	20.0 [508]	8.014	3596	227
2002NSW	20.0 [508]	20.0 [508]	-	-	-
2003SW	20.0 [508]	21.25 [540]	8.714	3911	247
2004SW	21.25 [540]	22.5 [572]	9.417	4226	267
2004NSW	22.5 [572]	22.5 [572]	-	-	-
2005SW	22.5 [572]	23.75 [603]	10.121	4542	287
2006SW	23.75 [603]	25.0 [635]	10.827	4859	307
2007SW	25.0 [635]	26.25 [667]	11.533	5176	327
2008SW	26.25 [667]	27.5 [699]	12.240	5493	347
2008NSW	27.5 [699]	27.5 [699]	-	-	-
2009SW	27.5 [699]	28.75 [730]	12.948	5811	367
2010SW	28.75 [730]	30.0 [762]	13.657	6129	387

- 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

- 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. M DATE: 5/8/12 C.N. NO. 124229

PROD/DWG. NO. Z812-SW

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