



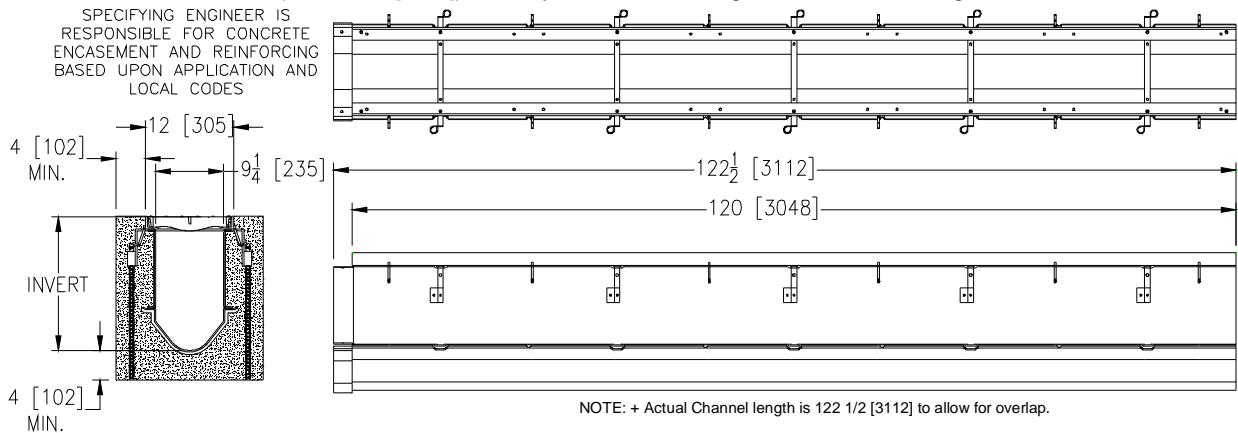
Z812-HDG-SW

SPECIFICATION SHEET

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

TAG _____

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



ENGINEERING SPECIFICATION: Zurn Z882-HDG-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 [272] added to the standard channel invert for additional flow capability shown in chart below. Channels shall have all grates locked down. Shall be provided with the standard GDC grate that locks down to the frame. Zurn 12 [305] wide reveal Galvanized Ductile Iron Slotted Grate. Ductile Iron conforms to ASTM specification A536-84, Grade 80-55-06. Galvanized 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 80.8 sq. in per ft. [171,027 sq. mm per meter]. The 1/4 [6] thick Galvanized Carbon Steel Frame Assembly conforms to ASTM specification A36 and Galvanizing conforms to ASTM specification A123 with 12-4 [102] long concrete anchors per 120 [3048]. Grate lockdown bars are integral to the frame. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames Shall be produced in the USA.

PREFIX OPTIONS (Check/specify appropriate options)

- Z Ten-foot Fiber Reinforced Polymer (FRP) Channel *
- ZV Ten-foot Fiber Reinforced Vinylster 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

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

- RFGC Reinforced Slotted Galvanized Grate - Class C
- RPGC Reinforced Perforated Galvanized Grate - Class C
- RPGRC Reinforced Perforated Galvanized 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.

- 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
- 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
- RFG Reinforced Galvanized Slotted Grate - Class B

- RPG Reinforced Galvanized Perforated Grate - Class B

Miscellaneous Options

- DB Bottom Dome Strainer

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

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 PROD./DWG. NO. Z812-HDG-SW

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