



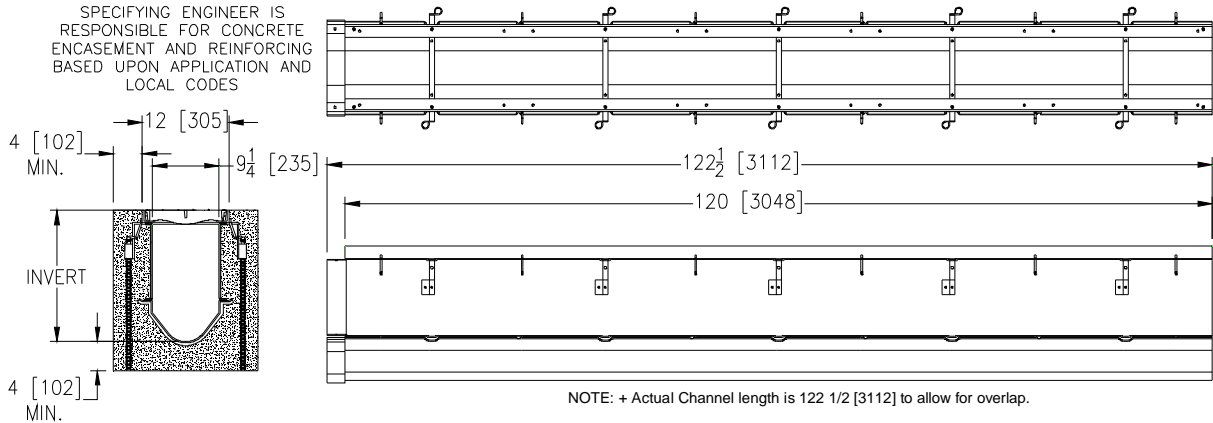
# Z812-HDS-SW

SPECIFICATION SHEET

12 [305] WIDE REVEAL FIBER REINFORCED POLYMER  
TRENCH DRAIN SYSTEM W/ STAINLESS 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 Z812-HDS-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 RFS grates that lock down to the frame. Zurn 12 [305] wide reveal Stainless Steel Reinforced Slotted Grate conforming to ASTM specification A351, Grade CF8 (type 304), Fabricated grate is rated class B per the DIN EN1433 top load classification. Supplied in 24 [608] nominal lengths with 3/8 [10] wide slots, 1-1/2 [38] bearing depth. Grate has an open area of 25.61 sq. in. per ft [54207 sq. mm per meter]. Tie down recesses provided for securing option. The 1/4 [6] thick Stainless Steel Frame Assembly conforms to ASTM specification A-240 (type 304). 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 D1.6. 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
- GG Fiberglass Grate - Class A
- HPD Heel-Proof Ductile Slotted Grate - Class C
- HPDE Heel-Proof Ductile Slotted Grate - Class E
- RFSC Reinforced Slotted Stainless Steel Grate - Class C
- RPSC Reinforced Perforated Stainless Steel Grate - Class C
- RPSRC Reinforced Perforated Stainless Steel Reversed Punch Grate - Class C

Trench No.	'A'		Flow		
	Shallow Inv.	Deep Inv.	(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

**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
- DGC-USA Ductile Iron Slotted Grate - Class C
- DGE-USA Ductile Iron Slotted Grate - Class E
- HPDE-USA Heel-Proof Ductile Slotted Grate - Class E
- FS Fabricated Stainless Steel Slotted Grate - Class A
- PS Perforated Stainless Steel Grate - Class A
- RFS Reinforced Stainless Steel Slotted 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

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\*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED