



ZF812-HDS

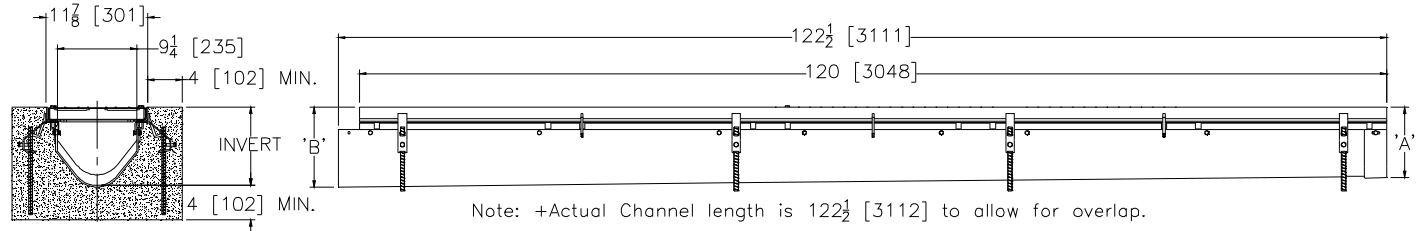
12 [305] WIDE REVEAL FIBER REINFORCED POLYMER TRENCH DRAIN SYSTEM W/ STAINLESS STEEL FRAME

SPECIFICATION SHEET

TAG _____

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

SPECIFYING ENGINEER IS RESPONSIBLE FOR CONCRETE ENCASEMENT AND REINFORCING BASED UPON APPLICATION AND LOCAL CODES.



Note: +Actual Channel length is 122 1/2 [3112] to allow for overlap.

ENGINEERING SPECIFICATION: Zurn ZF812-HDS

Channels shall be 120" [3048mm] long, 12" [305mm] wide reveal and have a 9-1/4" [235mm] 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. Channels shall weigh less than 5.05 lbs. [2.29kg] per linear foot, have a smooth, 3" [76mm] 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 RFSC grates that lock down to frame. Zurn 12" [305mm] wide reveal Stainless Steel Reinforced Slotted Grate conforming to ASTM specification A351 Grade CF8 (Type 304). Fabricated grate is rated class C per the DIN EN 1433 top load classifications. Supplied in 24" [608mm] nominal lengths with 3/8" [10mm] wide slots, and 1-1/2" [38mm] bearing depth. Grate has an open area of 20.2 sq. in per ft. [428 sq. cm per meter]. The #7 gage thick Heavy-Duty Stainless Steel Frame Assembly conforms to ASTM specification A-240 (Type 304). Frames shall mechanically lock into the concrete surround at a maximum spacing of every 21" [533mm] with 14 anchors per 120" [3048mm]. Frames shall have rebar attachment brackets as standard to secure trench to its final location. Grate lockdown bars are to be integral to the frame. All welds must be performed by a certified welder per ASTM standard AWS D1.6. Frames and Channels shall be produced in the U.S.A.

PREFIX OPTIONS (Check/specify appropriate options)

___ ZF Ten-foot Fiber Reinforced Polymer (FRP) *

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 B
- ___ -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

Miscellaneous Options

- ___ -DB Bottom Dome Strainer
- ___ -JC Joint Connector
- ___ -VP 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].

Trench No.	Dimensions in In. [mm]		Flow		
	'A' Shallow Inv.	'B' Deep Inv.	(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

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
- ___ -FS Fabricated Stainless Steel Slotted Grate - Class A
- ___ -HPDE-USA Heel-Proof Ductile Slotted Grate - Class E
- ___ -PS Perforated Stainless Steel Grate - Class A
- ___ -SBG-L Stainless Steel Bar Grate - Class C

* Regularly furnished unless otherwise specified.

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