



ZF812-HDG-SW

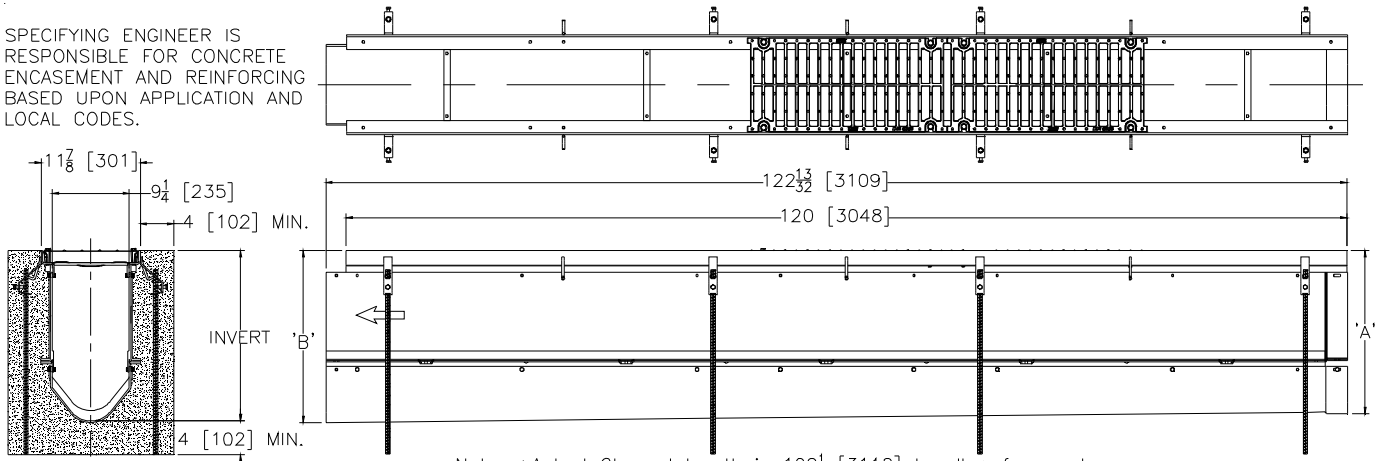
SPECIFICATION SHEET

12 [305] WIDE REVEAL FIBER REINFORCED POLYMER
TRENCH DRAIN SYSTEM W/ GALVANIZED STEEL FRAME
& 11-1/4 [286] SIDEWALL EXTENSION

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-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. 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 side walls provided for an additional 11-1/4 [286] added to the standard channel invert for an additional flow capability shown in chart below. Shall be provided with standard GDC grates that lock down to frame. Zurn 12 [305] wide reveal Galvanized Ductile Iron Slotted Grate conforming to ASTM specification A536, Grade 80-55-06. Galvanized Ductile Iron grate is rated class C per the DIN EN 1433 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 81.1 sq. in per ft. [171,618 sq. mm per meter]. The #7 gage thick Heavy-Duty Galvanized Carbon Steel Frame Assembly conforms to ASTM specification A36 and Galvanizing conforms to ASTM Specification A123. Frames shall mechanically lock into the concrete surround at a maximum spacing of every 21 [533], with 14 anchors per 120 [3048]. 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 D1.1. 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
___ -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

Trench No.	'A' Shallow Inv.	'B' Deep Inv.	Flow		
			(cfs)	(gpm)	(lps)
2002-SW	19.18 [487]	20.43 [519]	8.197	3679	232
2002N-SW	20.43 [519]	20.43 [519]	-	-	-
2003-SW	20.43 [519]	21.68 [551]	8.897	3993	252
2004-SW	21.68 [551]	22.93 [582]	9.599	4308	272
2004N-SW	22.93 [582]	22.93 [582]	-	-	-
2005-SW	22.93 [582]	24.18 [614]	10.303	4624	292
2006-SW	24.18 [614]	25.43 [646]	11.008	4940	312
2007-SW	25.43 [646]	26.68 [678]	11.714	5257	332
2008-SW	26.68 [678]	27.93 [709]	12.421	5575	352
2008N-SW	27.93 [709]	27.93 [709]	-	-	-
2009-SW	27.93 [709]	29.18 [741]	13.129	5892	372
2010-SW	29.18 [741]	30.43 [746]	13.837	6210	392

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].

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
___ -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
___ -JC Joint Connector
___ -VP Vandal-Proof Lockdown

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

REV. DATE: 11/21/11 C.N. NO. 122380

DWG. NO. 308130 PRODUCT NO. ZF812-HDG-SW

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