



Z882-HDG-SW

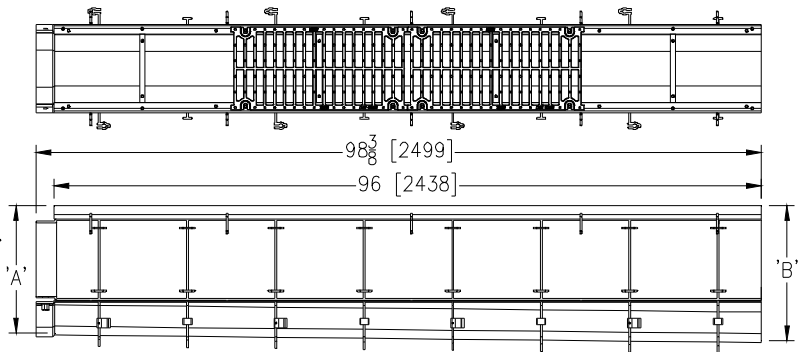
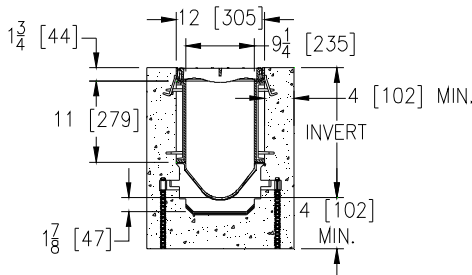
SPECIFICATION SHEET

12 [305] WIDE REVEAL TRENCH DRAIN SYSTEM WITH GALVANIZED STEEL FRAME AND SIDEWALL EXTENSIONS

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 98 3/8 [2499] to allow for overlap.

ENGINEERING SPECIFICATION: Zurn Z882-HDG-SW

Channels shall be 96 [2438] long, 12 [305] wide reveal and have a 9-1/4 [235] throat. Modular channel sections shall be made of 0% water absorbent High Density Polyethylene (HDPE). 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 0.009 and 1.04% or neutral 0% built in slope. Channels shall have HDPE SW Side Walls provided for an additional 11 [279] added to the standard channel invert for additional flow capability shown in chart below. Channels shall have all grates locked down. Shall have rebar clips standard to secure trench in its final location. 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 10 - 4 [102] long concrete anchors per 96 [2438]. 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 Eight-foot High Density Polyethylene (HDPE) Channel, Heavy-Duty Frame with Anchor Studs.*

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)

- ___ -BDC Black Acid Resistant Epoxy Coated Ductile Grate - Class C
- ___ -BDE Black Acid Resistant Epoxy Coated Ductile Grate - Class E
- ___ -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
- ___ -GHPD Galvanized Heel-Proof Ductile Grate - Class C
- ___ -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
- ___ -RPGC Reinforced Perforated Galvanized Grate - Class C

Trench No.	'A' Shallow Inv.	'B' Deep Inv.	Flow		
			(cfs)	(gpm)	(lps)
8202 SW	18.25 [464]	19.25 [489]	7.67	3443	217
8203 SW	19.25 [489]	20.25 [514]	7.95	3568	225
8203N SW	20.25 [514]	21.25 [540]	8.51	3820	241
8204 SW	21.25 [540]	21.25 [540]	-	-	-
8205 SW	21.25 [540]	22.25 [565]	9.07	4072	257
8206 SW	22.25 [565]	23.25 [591]	9.63	4325	273
8206N SW	23.25 [591]	24.25 [616]	10.20	4578	289
8607 SW	24.25 [616]	24.25 [616]	-	-	-
8208 SW	24.25 [616]	25.25 [641]	10.76	4832	305
8209 SW	25.25 [641]	26.25 [667]	11.33	5085	321
8209N SW	26.25 [667]	27.25 [692]	11.89	5339	337
8210 SW	27.25 [692]	27.25 [692]	-	-	-
8211 SW	27.25 [692]	28.25 [718]	12.46	5594	353
8212 SW	28.25 [718]	29.25 [743]	13.03	5848	369

- ___ -RPGRC Reinforced Perforated Galvanized Reverse Punch Grate - Class C

Miscellaneous Options (cont.)

- ___ -GFA Galvanized Frame Assembly
- ___ -JC Joint Connector
- ___ -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
- ___ -GG Fiberglass Grate - Class A
- ___ -GHDD Galvanized Highway Ductile Domestic Grate - Class C
- ___ -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

REV. C DATE: 5/8/12 C.N. NO. 124272
 PROD./DWG. NO. Z882-HDG-SW

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