

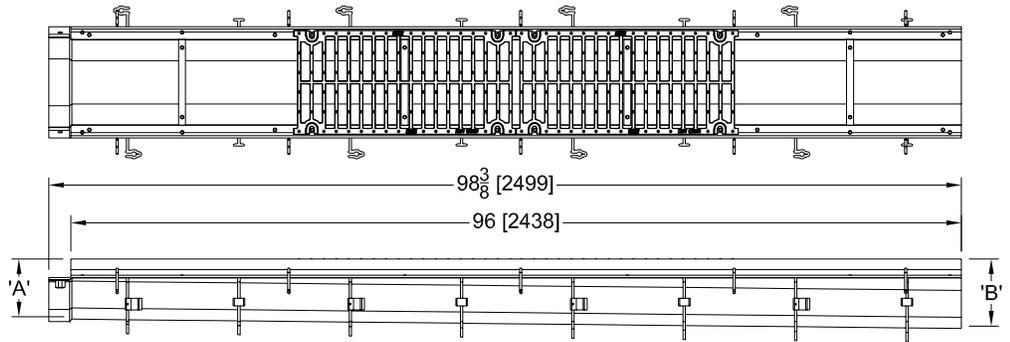
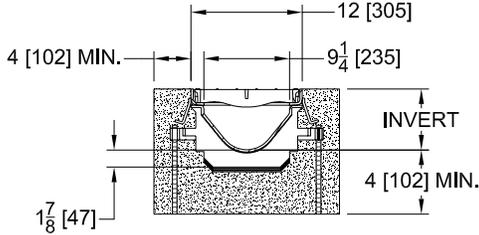


# Z882-HDG

## 12" WIDE REVEAL TRENCH DRAIN SYSTEM WITH GALVANIZED STEEL FRAME

Design and 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

Channels shall be 96" [2438mm] long, 12" [305mm] wide reveal and have a 9-1/4" [235mm] 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" [305mm]. 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 0.009 and 1.04% or neutral 0% built in slope. Channels 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" [305mm] 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" [608mm] nominal lengths with 13/16" [21mm] wide slots, and 1-1/2" [38mm] bearing depth. Grate has an open area of 57.5 in<sup>2</sup>/ft. [1217 cm<sup>2</sup>/m]. The 1/4" [6mm] thick Galvanized Carbon Steel Frame Assembly conforms to ASTM specification A36 and Galvanizing conforms to ASTM specification A123 with 10 - 4" [102mm] long concrete anchors per 96" [2438mm]. Grate lockdown bars are to be integral to the frame. The frame is supplied with a powder coated finish. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames Shall be produced in the U.S.A.

TRENCH NO.	'A' Shallow Inv.	'B' Shallow Inv.	Flow Open Area in <sup>2</sup> [cm <sup>2</sup> ]	Flow		
				(cfs)	(gpm)	(lps)
8201	6.25 [159]	7.25 [184]	37.7 [243.2]	1.241	557	35
8202	7.25 [184]	8.25 [210]	47 [303.2]	1.725	774	49
8203	8.25 [210]	9.25 [235]	56.2 [362.6]	2.226	999	63
8203N	9.25 [235]	9.25 [235]	56.2 [362.6]	-	-	-
8204	9.25 [235]	10.25 [260]	65.5 [422.6]	2.745	1232	78
8205	10.25 [260]	11.25 [286]	74.7 [481.9]	3.271	1468	93
8206	11.25 [286]	12.25 [311]	84 [541.9]	3.808	1709	108
8206N	12.25 [311]	12.25 [311]	84 [541.9]	-	-	-
8207	12.25 [311]	13.25 [337]	93.2 [601.3]	4.347	1951	123
8208	13.25 [337]	14.25 [362]	102.5 [661.3]	4.893	2196	139
8209	14.25 [362]	15.25 [387]	111.7 [720.6]	5.443	2443	155
8209N	15.25 [387]	15.25 [387]	111.7 [720.6]	-	-	-
8210	15.25 [387]	16.25 [413]	121 [780.6]	5.996	2691	170
8211	16.25 [413]	17.25 [438]	130.2 [840]	6.551	2940	186
8212	17.25 [438]	18.25 [464]	139.5 [900]	7.106	3189	202

### 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

See Additional Options on Page 2 of 2

\* Regularly furnished unless otherwise specified.

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### 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
- \_\_\_-BDF Black Acid Resistant Epoxy Coated Ductile Grate - Class F
- \_\_\_-BG Galvanized Steel Bar Grate - Class B
- \_\_\_-DC Ductile Iron Solid Cover - Class E
- \_\_\_-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 B
- \_\_\_-GHPDE Galvanized Heel-Proof Ductile Slotted Grate - Class E
- \_\_\_-HPD Heel-Proof Ductile Slotted Grate - Class B
- \_\_\_-HPDE Heel-Proof Ductile Slotted Grate - Class E
- \_\_\_-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

- \_\_\_-BL High Density Polyethylene (HDPE) System with 3% Carbon Black Additive
- \_\_\_-CBF Black Acid Resistant Coated Top Frame
- \_\_\_-JC Joint Connector
- \_\_\_-VP Vandal-Proof Lockdown

### MADE in the U.S.A.

- \_\_\_-ADA-USA Meets Americans with Disabilities Act Requirements - Class C
- \_\_\_-BDE-USA Black Acid Resistant Epoxy Coated Ductile Grate - Class E
- \_\_\_-DGC-USA Ductile Iron Slotted Grate - Class C
- \_\_\_-DGE-USA Ductile Iron Slotted Grate - Class E
- \_\_\_-FG Fabricated Galvanized Steel Slotted Grate - Class A
- \_\_\_-FS Fabricated Stainless 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
- \_\_\_-GG Fiberglass Grate - Class A
- \_\_\_-PG Perforated Galvanized Steel Grate - Class A
- \_\_\_-PGR Galvanized Perforated Reverse Punch Anti-Slip ADA Grate - Class A
- \_\_\_-RPG Reinforced Perforated Galvanized Grate
- \_\_\_-RPGR Reinforced Perforated Reverse Punch Anti-Slip Grate
- \_\_\_-RPS Reinforced Perforated Stainless Steel Grate
- \_\_\_-RPSR Reinforced Perforated Stainless Steel Reverse Punch Grate

### MADE in the U.S.A. Miscellaneous Options

- \_\_\_-DB Bottom Dome Strainer
- \_\_\_-SW Sidewall Extensions - 11 [279] High
- \_\_\_-SW2 Double Sidewall Extensions - 22 [559] High

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