

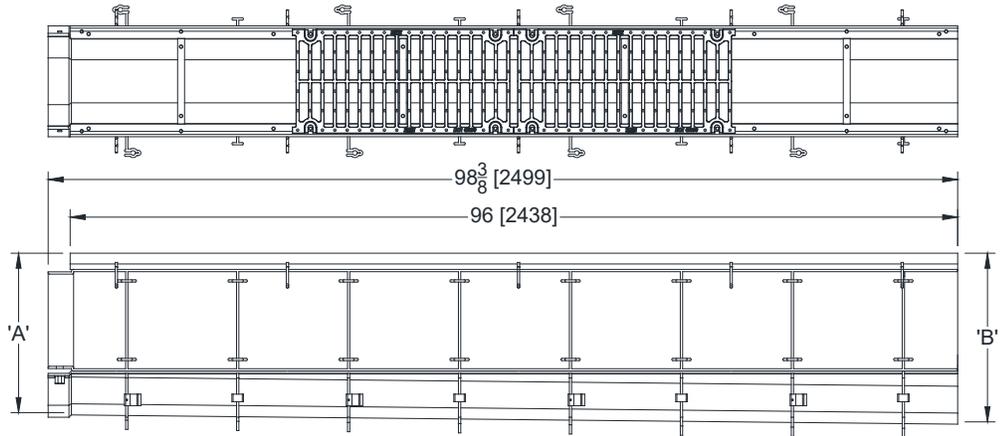
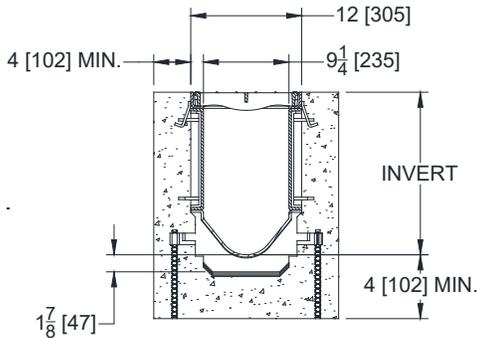


# Z882-SW

## 12" WIDE REVEAL TRENCH DRAIN SYSTEM W/ STEEL FRAME AND SIDEWALL EXTENSIONS

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-SW

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 standard DGC grates that lock down to frame. Zurn 12" [305mm] wide reveal ductile iron slotted grate conforming to ASTM specification A536-84, Grade 80-55-06. 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 80.8 in<sup>2</sup>/ft. [171 cm<sup>2</sup>/m]. The 1/4" [6mm] thick heavy-duty carbon steel frame assembly conforms to ASTM specification A36 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.

### 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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TRENCH NO.	'A' Shallow Inv.	'B' Shallow Inv.	Flow Open Area in <sup>2</sup> [cm <sup>2</sup> ]	Flow		
				(cfs)	(gpm)	(lps)
8202 SW	18.25 [464]	19.25 [489]	47 [303.2]	7.67	3442	217
8203 SW	19.25 [489]	20.25 [514]	56.2 [362.6]	7.95	3568	225
8203N SW	20.25 [514]	20.25 [514]	56.2 [362.6]	-	-	-
8204 SW	20.25 [514]	21.25 [540]	65.5 [422.6]	8.51	3819	241
8205 SW	21.25 [540]	22.25 [565]	74.7 [481.9]	9.07	4071	257
8206 SW	22.25 [565]	23.25 [591]	84 [541.9]	9.63	4322	273
8206N SW	23.25 [591]	23.25 [591]	84 [541.9]	-	-	-
8207 SW	23.25 [591]	24.25 [616]	93.2 [601.3]	10.2	4578	289
8208 SW	24.25 [616]	25.25 [641]	102.5 [661.3]	10.76	4829	305
8209 SW	25.25 [641]	26.25 [667]	111.7 [720.6]	11.33	5085	321
8209N SW	26.25 [667]	26.25 [667]	111.7 [720.6]	-	-	-
8210 SW	26.25 [667]	27.25 [692]	121 [780.6]	11.89	5336	337
8211 SW	27.25 [692]	28.25 [718]	130.2 [840]	12.46	5592	353
8212 SW	28.25 [718]	29.25 [743]	139.5 [900]	13.03	5848	369



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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
- \_\_\_-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
- \_\_\_-RFSC Reinforced Slotted Stainless Steel Grate - Class C
- \_\_\_-RPSC Reinforced Perforated Stainless Steel Grate - Class C
- \_\_\_-RPSRC Reinforced Perforated Stainless Steel Reverse Punch Grate - Class C
- \_\_\_-SBGE Stainless Steel Slotted Bar Grate - Class E
- \_\_\_-SBG-L Stainless Steel Bar Grate - Class C
- \_\_\_-SWG-B Slip Resistant Stainless Steel Wire Grate - Class B

### 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
- \_\_\_-PS Perforated Stainless Steel Grate - Class A
- \_\_\_-PSR Perforated Stainless Steel Reverse Punch Grate
- \_\_\_-RFG Reinforced Slotted Stainless Steel Grate
- \_\_\_-RFS Reinforced Slotted Stainless Steel Grate
- \_\_\_-RPG Reinforced Perforated Galvanized Grate
- \_\_\_-RPGR Reinforced Galvanized Perforated Reverse Punch Anti-Slip Grate
- \_\_\_-RPS Reinforced Perforated Stainless Steel Grate
- \_\_\_-RPSR Reinforced Perforated Stainless Steel Reverse Punch Grate
- \_\_\_-SBGE-USA Stainless Steel Slotted Bar Grate - Class E
- \_\_\_-SBG-L-USA Stainless Steel Bar Grate - Class C
- \_\_\_-SSCD Stainless Steel Circular Decorative Grate

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

- \_\_\_-AS Slip Resistant Bumps
- \_\_\_-DB Bottom Dome Strainer
- \_\_\_-SW2 Double Sidewall Extensions - 22 [559] High

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