



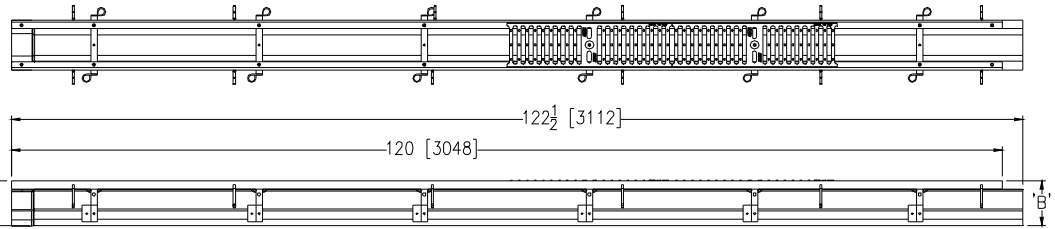
# Z806-CBF

### 6 [152] WIDE REVEAL FIBER REINFORCED POLYMER TRENCH DRAIN SYSTEM W/BLACK ACID POWDER COATED HEAVY-DUTY FRAME

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 Z806-CBF

Channels shall be 120 [3048] long, 6 [152] wide and have a 4 [102] 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 and shall mechanically lock into the concrete surround every 10 [254]. Channels shall weigh less than 2.31 lbs.[1.05kg] per linear foot, have a smooth, 1-1/2 [38] radiused self cleaning bottom with a Manning's coefficient of .009 and .75% or neutral 0% built in slope. Shall be provided with standard DGC grates that lock down to frame. Zurn 6 [152] 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 20 [508] nominal lengths with 1/2 [13] wide slots, and 3/4 [19] bearing depth. Grate has an open area of 18.57 sq. in. per ft. [39.307 sq. mm per meter]. The 1/4 [6] thick Heavy-Duty Carbon Steel Frame Assembly conforms to ASTM specification A36 with 12-4 [102] long concrete anchors per 120 [3048]. 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.

**COATING ENGINEERING SPECIFICATION:** Black acid resisting coating is TGIC polyester powder coat finish with the following characteristics: Film thickness between 2.5-6.0 mills, gloss per ASTM D523: 50+, adhesion, cross hatch per ASTM D3359, Method B: 5B, Mandrel bending test ASTM D522: d" 3mm, Impact test per ASTM D2794, no cracks: 60 in-lbs min., Salt spray resistance 500h ASTM B117: max undercut 1mm, no blistering, Pencil hardness ASTM D3363: H-2H. Product shall be prepared for coating by one of the following methods: 3 to 5 stage iron phosphate pretreatment wash and rinse or equal, or complete sandblasting to remove all oils, grease and to etch metal to accept finish coat.

#### PREFIX OPTIONS (Check/specify appropriate options)

- \_\_\_ Z Ten-foot Fiber Reinforced Polymer (FRP)\*
- \_\_\_ ZV Ten-foot Fiber Reinforced Vinylester

#### SUFFIX OPTIONS (Check/specify appropriate options)

##### Outlet Adapters Add/Each

- \_\_\_ E1 Closed End Cap
- \_\_\_ E2 2 [51] No-Hub End Outlet
- \_\_\_ E3 3 [76] No-Hub End Outlet
- \_\_\_ E4 4 [102] No-Hub End Outlet
- \_\_\_ E6 6 [152] No-Hub End Outlet
- \_\_\_ U2 2 [51] No-Hub Bottom Outlet
- \_\_\_ U3 3 [76] No-Hub Bottom Outlet
- \_\_\_ U4 4 [102] No-Hub Bottom Outlet
- \_\_\_ U6 6 [152] 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
- \_\_\_ BG Galvanized Ductile Iron Cast Bar Grate - Class C
- \_\_\_ DBG Ductile Iron Cast Bar Grate - Class C
- \_\_\_ DC Ductile Iron Solid Cover - Class C
- \_\_\_ DGC Ductile Iron Slotted Grate - Class C \*
- \_\_\_ DGE Ductile Iron Slotted Grate - Class E
- \_\_\_ GDC Galvanized Ductile Slotted Grate - Class C
- \_\_\_ GDE Galvanized Ductile Slotted Grate - Class E
- \_\_\_ GG Fiberglass Grate - Class A
- \_\_\_ GHPD Galvanized Heel-Proof Ductile Grate - Class B
- \_\_\_ GHPDE Galvanized Heel-Proof Ductile Grate - Class E
- \_\_\_ HPD Heel-Proof Ductile Slotted Grate - Class B
- \_\_\_ HPDE Heel-Proof Ductile Slotted Grate - Class E
- \_\_\_ HPP Heel-Proof Polyethylene Grate - Class A
- \_\_\_ LD Ductile Iron Longitudinal Slotted Grate - Class B
- \_\_\_ RFG Reinforced Galvanized Steel Slotted Grate - Class B
- \_\_\_ RPG Reinforced Galvanized Perforated Grate - Class B
- \_\_\_ RFGC Reinforced Slotted Galvanized Grate - Class C
- \_\_\_ RFSC Reinforced Slotted Stainless Steel Grate - Class C
- \_\_\_ RPGC Reinforced Perforated Galvanized Grate - Class C
- \_\_\_ RPGR Reinforced Galvanized Perforated Reverse Punch Anti-Slip ADA Grate - Class C
- \_\_\_ RPGRC Reinforced Perforated Galvanized Reverse Punch Grate - Class C
- \_\_\_ RPSC Reinforced Perforated Stainless Steel Grate - Class C
- \_\_\_ RPSRC Reinforced Perforated Stainless Steel Reverse Punch Grate - Class C

#### Decorative Grate Options (Load Classifications are per DIN EN1433)

- \_\_\_ BCD Bronze Circular Decorative Grate - Class A
- \_\_\_ BDD Bronze Diagonal Decorative Grate - Class A
- \_\_\_ DCD Ductile Iron Circular Decorative Grate - Class C

\* Regularly furnished unless otherwise specified.

Trench No.	'A' Shallow Inv.	'B' Deep Inv.	Flow		
			(cfs)	(gpm)	(lps)
1001	3.50 [89]	4.40 [112]	.196	88	6
1002	4.40 [112]	5.30 [135]	.296	133	8
1002N	5.30 [135]	5.30 [135]	-	-	-
1003	5.30 [135]	6.20 [157]	.397	178	11
1004	6.20 [157]	7.10 [180]	.501	225	14
1004N	7.10 [180]	7.10 [180]	-	-	-
1005	7.10 [165]	8.00 [203]	.604	271	17
1006	8.00 [203]	8.90 [203]	.711	319	20
1007	8.90 [226]	9.80 [249]	.816	366	23
1008	9.80 [249]	10.70 [272]	.922	414	26
1008N	10.70 [272]	10.70 [272]	-	-	-
1009	10.70 [272]	11.60 [295]	1.029	462	29
1010	11.60 [295]	12.50 [318]	1.136	510	32

- \_\_\_ -DDD Ductile Iron Diagonal Decorative Grate - Class A
- \_\_\_ -DOG Ductile Iron Decorative Grate - Class A
- \_\_\_ -DTW Ductile Iron Tidal Wave Grate - Class C
- \_\_\_ -DWV Ductile Wave Decorative Grate - Class A
- \_\_\_ -HPB Heel-Proof Bronze Slotted Grate - Class A
- \_\_\_ -HPS Heel-Proof Stainless Steel Slotted Grate - Class A
- \_\_\_ -SBG Stainless Steel Bar Grate - Class E
- \_\_\_ -SCD Stainless Steel Circular Decorative Grate - Class B
- \_\_\_ -SDD Stainless Steel Diagonal Decorative Grate - Class B
- \_\_\_ -SMG Stainless Steel Mesh Grate - Class B
- \_\_\_ -SOG Stainless Steel Decorative Grate - Class B

#### Miscellaneous Options

- \_\_\_ -DB Bottom Dome Strainer
- \_\_\_ -JC Joint Connector
- \_\_\_ -RC Rebar Clip (Set of 2)
- \_\_\_ -SW 8.1 [206] High Sidewall Extension Adapter (Per Pair)
- \_\_\_ -VP Vandal-Proof Lockdown

#### MADE in the U.S.A. (Load Classifications are per DIN EN1433)

- \_\_\_ -AWG Aluminum Wire Grate - Class A
- \_\_\_ -BDE-USA Black Acid Resistant Epoxy Coated Ductile Grate - Class E
- \_\_\_ -DCE-USA Ductile Iron Solid Cover - 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
- \_\_\_ -GDC-USA Galvanized Ductile Slotted Grate - Class C
- \_\_\_ -GDE-USA Galvanized Ductile Slotted Grate - Class E
- \_\_\_ -GHPDE-USA Galvanized Heel-Proof Grate - Class E
- \_\_\_ -GMG Galvanized Steel Mesh Grate - Class B
- \_\_\_ -HPDE-USA Heel-Proof Ductile Slotted Grate - Class E
- \_\_\_ -PG Perforated Galvanized Steel Grate - Class A
- \_\_\_ -PGR Galvanized Perforated Reverse Punch Anti-Slip ADA Grate - Class A
- \_\_\_ -PPC Plastic Perforated Grate - Class C
- \_\_\_ -PS Perforated Stainless Steel Grate - Class A
- \_\_\_ -PSR Stainless Steel Perforated Reverse Punch Anti-Slip Grate - Class A

#### Decorative MADE in the U.S.A. (Load Classifications are per DIN EN1433)

- \_\_\_ -BZ Bronze Decorative Grate - Class A
- \_\_\_ -NBZ Nickel Bronze Decorative Grate - Class A
- \_\_\_ -PDE-USA Ductile Iron Perforated ADA Grate - Class E
- \_\_\_ -PSR Stainless Steel Perforated Reverse Punch Anti-Slip - Class A
- \_\_\_ -SWG Stainless Steel Wire Grate - Class A

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