

## 12 [305] WIDE REVEAL FIBER REINFORCED VINYLESTER TRENCH DRAIN SYSTEM W/ STEEL 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.

112 [301]
122 [3111]
120 [3048]

Note: +Actual Channel length is  $122\frac{1}{2}$  [3112] to allow for overlap.

## **ENGINEERING SPECIFICATION:** Zurn ZFV812

4 [102] MIN.

Channels shall be 120" [3048mm] long, 12" [305mm] wide reveal and have a 9-1/4" [235mm] throat. Modular channel sections are made of Fiber Reinforced Vinylester. Channels have a positive mechanical connection between channel sections that will not separate during the installation. Channels 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 .009 and 1.04% or neutral 0% built in slope. Provided with standard DGC grates that lock down to frame. Zurn 12" [305mm] wide reveal Ductile Iron Slotted Grate conforming to ASTM specification A536, Grade 80-55-06. Ductile Iron grate is rated class C per the DIN EN 1433 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 81.1 sq. in per ft. [171,618 sq. mm per meter]. The 1/4" [6mm] thick Heavy-Duty Carbon Steel Frame Assembly conforms to ASTM specification A36. Frames mechanically lock into the concrete surround at a maximum spacing of every 21" [533mm]. With 14 anchors per 120" [3048mm]. Frames have rebar attachment brackets as standard to secure trench to its final location. 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. Channels have a 94-5VA Flammability Rating per ASTM D5048 and a V-0 flammability rating per ASTM D3801. Frames and Channels produced in the U.S.A.

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PREFIX OPTIONS (Check/specify appropriate options)		Trench	'A' Shallow Inv. In.[mm]	'B' Deep Inv. In.[mm]			
ZFV Ten-foot Fiber Reinforced Vinylester *					(cfs)	(FglpWh)	(lps)
SUFFIX OPTIONS (Check/specify appropriate options) Outlet Adapters Add/Each		2002	7.93 [201]	9.18 [233]	2.088	937	59
E1 Closed End CapU4 4 [102] No-Hub Bo	ttom Outlet	2002N	9.18 [233]	9.18 [233]	-	-	-
E4  4 [102] No-Hub End Outlet		2003	9.18 [233]	10.43 [265]	2.730	1225	77
E6 6 [152] No-Hub End OutletU8 8 [203] No-Hub Bo	ttom Outlet	2004	10.43 [265]	11.68 [297]	3.388	1521	96
E8 8 [203] No-Hub End Outlet		2004N	11.68 [297]	11.68 [297]	-	-	-
Frame Options		2005	11.68 [297]	12.93 [328]	4.058	1821	115
-CWF White Acid Resistant Coated Top Frame -CBF Black Acid Resistant Coated Top Frame		2006	12.93 [328]		4.736	2125	134
		2007	+	15.43 [392]	5.420	2432	153
Grate Options (Load Classifications are per DIN EN1433)		2008		16.68 [424]	6.109	2742	173
BDC Black Acid Resistant Epoxy Coated Ductile Grate - Class C		2008N	16.68 [424]		-	-	-
-BDE Black Acid Resistant Epoxy Coated Ductile Grate - Class E -BDF Black Acid Resistant Epoxy Coated Ductile Grate - Class F		2009		17.93 [455]	6.802	3053	193
Black Acid Resistant Epoxy Coated Ductile Grate - Class F -DC-G Galvanized Ductile Iron Solid Cover - Class E		2010		19.18 [487]		3365	212
-DC Ductile Iron Solid Cover - Class E							
DGC Ductile Iron Slotted Grate - Class C *HDDE Heel-Proof Ductile Slotted Grate - Class E							
DGE							
— -RFSC Reiniorced Slotted Stainless Steel Grate - Class C							
-GDE Galvanized Ductile Slotted Grate - Class E						° C	
-GDF Galvanized Ductile Slotted Grate - Class F -RPGRC Reinforced Perforated Galvanized Reverse Punch							s C
Grate - Class C							
GHPDE Galvanized Heel-Proof Ductile Slotted Grate - Class E	C Reinforced Perforated Stainless Steel Reverse Punch						
MADE in the U.S.A. Grate - Class C							
-ADA-USA Meets Americans with Disabilities Act -GDE-USA Galvanized Ductile Slotted Grate - Class E Requirements - Class C -GHPDE-USA Galvanized Heel-Proof Ductile Slotted Grate - Class E							
-BDC-USA Black Acid Resistant Epoxy Coated DuctileHDPE-USA Heel-Proof Ductile Slotted Grate - Class E						iass L	
Grate - Class CPG Perforated Galvanized Steel Grate - Class A							
BDE-USA Black Acid Resistant Epoxy Coated Ductile	PS		erforated Stai			lass A	
Grate - Class E -BG Galvanized Steel Bar Grate - Class D	SBG		tainless Steel	Bar Grate - 0	Class B		
BG Galvanized Steel Bar Grate - Class D DGC-USA Ductile Iron Slotted Grate - Class C	Miscellane DB		<b>ions</b> n Dome Straine				
DGE-USA	JC		Connector	<del>7</del> 1			
-FG Fabricated Galvanized Steel Slotted Grate - Class A	VP		l-Proof Lockd	own			
-FS Fabricated Stainless Steel Slotted Grate - Class A	Note:						
GADA-USA Galvanized Ductile ADA Slotted Grate - Class C GDC-USA Galvanized Ductile Slotted Grate - Class C		num fluid	temperature t	hrough the sy	stem mu	st not ex	ceed
			e range (Max.	Temp. to Min	. Temp.)	must not	
* Regularly furnished unless otherwise specified. exceed 100			C].				
Zurn Industries II C   Specification Prainage Operation				·			

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