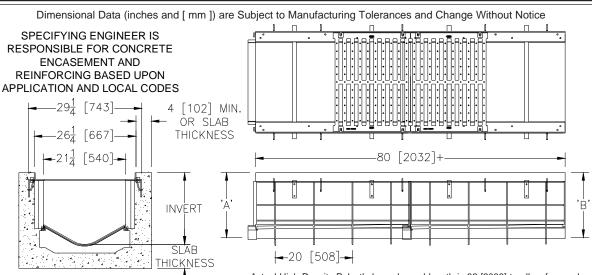


Z874-21-HDG

SPECIFICATION SHEET

21 [533] WIDE THROAT TRENCH DRAIN SYSTEM W/HEAVY-DUTY GALVANIZED FRAME

TAG



+Actual High Density Polyethylene channel length is 82 [2083] to allow for overlap, with frame attached the length is 84-1/2 [2146] with the exception of P.N. 2101P and 2130P.

ENGINEERING SPECIFICATION: Zurn Z874-21-HDG Channels shall be 80 [2032] long, 26-1/4 [667] wide reveal and have a 21 [533] wide 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 10 [254]. Channels shall weigh less than 11.4 lbs. [5.2 kg] per linear foot, have smooth 6.5 [165] radiused self cleaning bottom with a Manning's coefficient of 0.009 and 1.00% or neutral 0% built-in slope. Channels are available with inverts ranging from 11.25 [286] to 36.21 [920]. Channel shall have all grates locked down. Channels come with clips attached to the frame to accommodate vertical re-bar for positioning and anchoring purposes. Shall be provided with the standard GDC grate, Zurn 25-1/2 [648] wide Galvanized Ductile Iron Slotted Grate, and lock down to the frame with 4 contiguous bolt anchors per grate. Ductile Iron conforms to ASTM specification A536-84, Grade 80-55-06, and Galvanizing conforms to ASTM specification A123. Ductile Iron grate is rated class C per the DIN EN1433 top load classifications. Supplied in 20 [508] nominal lengths with 1-1/32 [26] wide slots, and 1-3/4 [44] bearing depth. Grate has an open area of 133 sq. in. per ft. [281530 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 80 [2032]. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames shall be produced in the USA.

Flow 'A' 'R' Trench # Shallow In. Deep Inv. (gpm) (lps) (cfs) 2101P 11.250 [286] 12.082 [307] 3734 236 8.369 2102F 12.082 [307] 12.914 [328] 4398 277 9.857 12.914 [328] 2103P 13.746 [349] 5081 320 11.388 2104P 13.746 [349] 14.578 [370] 5779 365 12.953 2105P 14.578 [370] 15.410 [391] 6491 409 14.549 2105NF 15.410 [391] 15.410 [391 15.410 [391] 2106P 16.242 [413] 7214 455 16.170 2107P 7948 501 17.814 16.242 [413] 17.074 [434] 2108P 17.074 [434] 17.906 [455] 8690 548 19.478 2109P 18.738 [476] 9440 595 21.159 17.906 [455] 2110P 18.738 476 10197 643 22.855 19.570 [497] 2111P 19.570 [497] 20.402 [518] 10960 691 24.565 2112P 20.402 [518] 21.234 [539] 11728 740 26.287 2113P 21.234 [539 22.066 [560] 12501 789 28.020 2114P 22.898 [582] 13279 838 29.763 22.066 [560] 2115P 22.898 [582 23.730 [603] 14060 887 31.514 2115NF 23.730 [603] 23.730 [603] 24.562 [624] 2116P 23.730 [603 14845 936 33.274 15633 986 35.041 2117P 24.562 [624] 25.394 [645] 2118P 25.394 [645] 26.226 [666] 16424 1036 36.814 26.226 [666] 27.058 [687] 17218 1086 38.594 2119P 27.890 [708] 18015 1136 40.379 2120P 27.058 [687] 2121P 27 890 [708] 28.722 [730] 18814 1187 42.169 37 43.964 88 45.763 39 47.567 90 49.374 40 51.184 92 52.998 43 54.815 94 56.634 45 58.457

PREFIX

80 [2032] High Density Polyethylene Channel, Heavy-Duty Galvanized Frame with Anchor Studs*

SUFFIX OPTIONS (Check/specify appropriate options)

<u>Adapters</u>

Ζ

Adapters	ZIZIF	27.090 [700]	20.722 [730]	10014 1107 4	· ∠ .
E1 Closed End CapU4 4 [102] No-Hub Botto	m Outlet 2122P	28.722 [730]	29.554 [751]	19614 1237 4	3.9
-E4 4 [102] No-Hub End OutletU6 6 [152] No-Hub Botto	m Outlet 2123P	29.554 [751]	30.386 [772]	20417 1288 4	5.7
E6 6 [152] No-Hub End OutletU8 8 [203] No-Hub Botto	m Outlet 2124P	30.386 [772]	31.218 [793]	21222 1339 4	7.5
E8 8 [203] No-Hub End OutletU12 12 [305] No-Hub Botte	om Outlet 2125P	31.218 [793]	32.050 [814]	22028 1390 4	9.3
E12 12 [305] No-Hub End OutletU18 18 [457] No-Hub Botte	om Outlet 2125NP	32.050 [814]	32.050 [814]		-
E18 18 [457] No-Hub End Outlet	2126P	32.050 [814]	32.882 [835]	22836 1440 5	1.1
	2127P	32.882 [835]	33.714 [856]	23645 1492 5	2.9
Grate Options (Load Classifications are per DIN EN1433)	2128P	33.714 [856]	34.546 [877]	24455 1543 5	4.8
DCC Ductile Iron Solid Cover - Class C	2129P	34.546 [877]	35.378 [899]	25267 1594 5	6.6
DGC Ductile Iron Slotted Grate - Class C*	2130P	35.378 [899]	36.210 [920]	26080 1645 5	8.4
-DGF Ductile Iron Slotted Grate - Class F -GDC Galvanized Ductile Iron Grate - Class C	(Neutral	channels available	e for all sectior	numbers)	
GDF Galvanized Ductile Iron Grate - Class F	(,	
-HPD Heel-Proof Longitudonal Ductile Iron Grate - Class C					
MADE in the U.S.A. (Load Classifications are per DIN EN1433)					
-DGE-USA Ductile Iron Slotted Grate - Class E					
GDE-USA Galvanized Ductile Slotted Grate - Class E					
	_				
MADE in the U.S.A. Miscellaneous Options	REV D	ATE: 3/14/11	C.N. N(0. 120432	
VP Vandal-Proof Lockdown					
*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED	DWG. NO. 303	3412 PRO	DUCTNO. Z	.874-21-HDC	3
ZURN INDUSTRIES, LLC & SPECIFICATION DRAINAGE OPERATION & 1801 Pittsburgh Ave. & Erie, PA 16514					

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