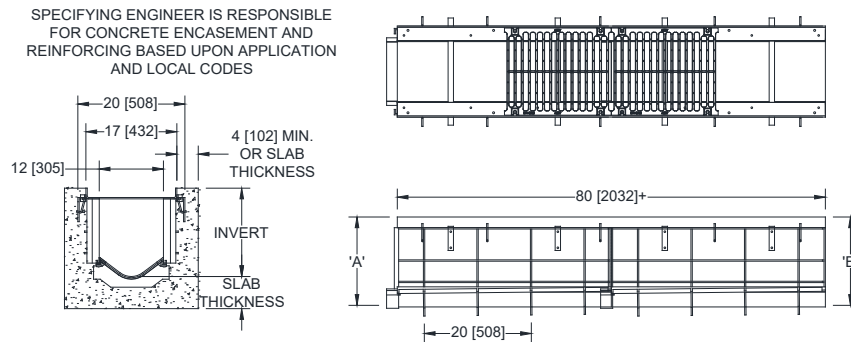




Z874-12

12 [305] WIDE THROAT TRENCH DRAIN SYSTEM

Design and Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



ENGINEERING SPECIFICATION: Zurn Z874-12

Channels shall be 80" [2032mm] long, 17" [432mm] wide reveal and have a 12" [305mm] 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" [254mm]. Channels shall weigh less than 6.6 lbs. per linear foot [9.8 kg/m], have smooth 3.5" [89mm] radiused self cleaning bottom with a Manning's coefficient of .009 and 1.00% or neutral 0% built-in slope. Channels are available with inverts ranging from 9.25" [235mm] to 34.21" [869mm]. 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 DGC grate, Zurn 16-1/4" [413mm] wide Ductile Iron Slotted Grate, which locks down to the frame with 4 individual bolt anchors per grate. Ductile Iron conforms 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 mm] nominal lengths with 13/16" [21mm] wide slots, and 1-3/4" [44mm] bearing depth. Grate has an open area of 118 sq. in. per ft. [249779] sq. mm per meter. The 1/4" [6mm] thick Carbon Steel Frame Assembly conforms to ASTM specification A36 with 10 - 4" [102mm] long concrete anchors per 80" [2032mm]. 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 USA.

PREFIX OPTIONS (Check/specify appropriate options)

___ Z 80 [2032] High Density Polyethylene 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
 ___ -E10 10" [254] 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
 ___ -U12 12" [305] No Hub Bottom Outlet

Grate Options (Load Classifications are per DIN EN1433)

___ -BDC Black Acid Ductile Iron Slotted Grate - Class C
 ___ -BDF Black Acid Ductile Iron Slotted Grate - Class F
 ___ -DCC Ductile Iron Solid Cover - Class C
 ___ -DCF Ductile Iron Solid Cover - Class F
 ___ -DGC Ductile Iron Slotted Grate - Class C*
 ___ -DGF Ductile Iron Slotted Grate - Class F
 ___ -GDC Galvanized Ductile Iron Slotted Grate - Class C
 ___ -GDF Galvanized Ductile Iron Slotted Grate - Class F
 ___ -GG Fiberglass Grate
 ___ -GHPD Galvanized Heel-Proof Longitudinal Ductile Grate - Class C
 ___ -HPD Heel-Proof Longitudinal Ductile Grate - Class C
 ___ -SBG Stainless Steel Bar Grate - Class C

MADE in the U.S.A.

___ -ADA-USA Ductile ADA Slotted Grate - Class C (Meets Americans w/ Disabilities Act Requirements)
 ___ -DGC-USA Ductile Iron Slotted Grate - Class C
 ___ -DGF-USA Ductile Iron Slotted Grate - Class F
 ___ -GADA-USA Galvanized Ductile ADA Slotted Grate - Class C
 ___ -GDC-USA Galvanized Ductile Iron Slotted Grate - Class C
 ___ -GDF-USA Galvanized Ductile Iron Slotted Grate - Class F

MADE in the U.S.A. Miscellaneous Options

___ -CBF Black Acid Resistant Coated Frame
 ___ -DB Bottom Dome Strainer
 ___ -HDS Type 304 Stainless Steel Top Frame

Miscellaneous Options

___ -RC Rebar Clips (Set of 2)
 ___ -VP Vandal-Proof Lockdown

* Regularly furnished unless otherwise specified

⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

⚠ **ADVERTENCIA:** Cáncer y daño reproductivo - www.P65Warnings.ca.gov

⚠ **AVERTISSEMENT:** Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

Trench #	A'		B'		(Flow)		
	Shallow Invert	Deep Invert	Shallow Invert	Deep Invert	(gpm)	(lps)	(cfs)
	Inches	mm	Inches	mm			
1201P	9.250	235	10.082	256	1475	93	3.31
1202P	10.082	256	10.914	277	1758	111	3.94
1203P	10.914	277	11.746	298	2048	129	4.59
1204P	11.746	298	12.578	319	2341	148	5.25
1205P	12.578	319	13.410	341	2639	166	5.91
1205NP	13.410	341	13.410	341	-	-	-
1206P	13.410	341	14.242	362	2939	185	6.59
1207P	14.242	362	15.074	383	3243	205	7.27
1208P	15.074	383	15.906	404	3548	224	7.95
1209P	15.906	404	16.738	425	3855	243	8.64
1210P	16.738	425	17.570	446	4164	263	9.33
1211P	17.570	446	18.402	467	4474	282	10.03
1212P	18.402	467	19.234	489	4785	302	10.73
1213P	19.234	489	20.066	510	5098	322	11.43
1214P	20.066	510	20.898	531	5411	341	12.13
1215P	20.898	531	21.730	552	5725	361	12.83
1215NP	21.730	552	21.730	552	-	-	-
1216P	21.730	552	22.562	573	6040	381	13.54
1217P	22.562	573	23.394	594	6355	401	14.24
1218P	23.394	594	24.226	615	6671	421	14.95
1219P	24.226	615	25.058	636	6988	441	15.66
1220P	25.058	636	25.890	658	7304	461	16.37
1221P	25.890	658	26.722	679	7622	481	17.08
1222P	26.722	679	27.554	700	7940	501	17.80
1223P	27.554	700	28.386	721	8258	521	18.51
1224P	28.386	721	29.218	742	8576	541	19.22
1225P	29.218	742	30.050	763	8895	561	19.94
1225NP	30.050	763	30.050	763	-	-	-
1226P	30.050	763	30.882	784	9214	581	20.65
1227P	30.882	784	31.714	806	9533	601	21.37
1228P	31.714	806	32.546	827	9852	622	22.08
1229P	32.546	827	33.378	848	10172	642	22.80
1230P	33.378	848	34.210	869	10492	662	23.52

Note: Stainless Steel Frames and Grates are supplied with Type 304SS. (Type 316SS available upon request.)

Zurn Industries, LLC | Flo-Thru Division
 1801 Pittsburgh Avenue, Erie, PA 16502, Ph. 855.663.9876

In Canada | Zurn Industries Limited
 7900 Goreway Drive, Unit 10, Brampton, Ontario L6T 5W6, Ph. 877.892.5216

Rev. U
 Date: 04/07/2023
 C.N. No. 145234
 Prod. | Dwg. No. Z874-12