



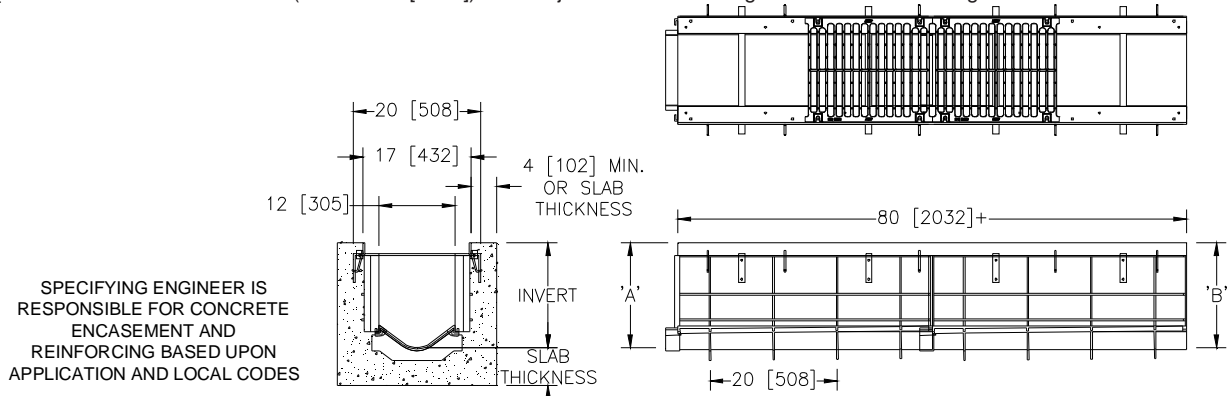
Z874-12-HDG

12 [305] WIDE THROAT TRENCH DRAIN SYSTEM W/HEAVY-DUTY GALVANIZED FRAME

SPECIFICATION SHEET

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

+ 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. 1201P and 1230P.

ENGINEERING SPECIFICATION: Zurn Z874-12-HDG Channels shall be 80 [2032] long, 17 [432] wide reveal and have a 12 [305] 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 6.6 lbs. [3kg] per linear foot, have smooth 3-1/2 [89] 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 9.25 [235] to 34.21 [869]. Channel shall have all grates locked down. Channels come with clips attached to the frame to accommodate vertical rebar for positioning and anchoring purposes. Shall be provided with the standard GDC grate, Zurn 16-1/4 [413] wide Galvanized Ductile Slotted Grate, which locks 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. Galvanized Ductile Iron grate is rated class C per the DIN EN1433 top load classifications. Supplied in 20 [608] nominal lengths with 13/16 [21] wide slots, and 1-3/4 [44] bearing depth. Grate has an open area of 118 sq. in. per ft. [249779 sq. mm per meter]. The 0.25 [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.

Trench #	'A' Shallow Inv.	'B' Deep Inv.	Flow		
			(gpm)	(lps)	(cfs)
1201P	9.250 [235]	10.082 [256]	1475	93	3.306
1202P	10.082 [256]	10.914 [277]	1758	111	3.941
1203P	10.914 [277]	11.746 [298]	2048	129	4.589
1204P	11.746 [298]	12.578 [319]	2341	148	5.248
1205P	12.578 [319]	13.410 [341]	2639	166	5.915
1205NP	13.410 [341]	13.410 [341]	-	-	-
1206P	13.410 [341]	14.242 [362]	2939	185	6.589
1207P	14.242 [362]	15.074 [383]	3243	205	7.268
1208P	15.074 [383]	15.906 [404]	3548	224	7.953
1209P	15.906 [404]	16.738 [425]	3855	243	8.641
1210P	16.738 [425]	17.570 [446]	4164	263	9.333
1211P	17.570 [446]	18.402 [467]	4474	282	10.028
1212P	18.402 [467]	19.234 [489]	4785	302	10.726
1213P	19.234 [489]	20.066 [510]	5098	322	11.426
1214P	20.066 [510]	20.898 [531]	5411	341	12.128
1215P	20.898 [531]	21.730 [552]	5725	361	12.832
1215NP	21.730 [552]	21.730 [552]	-	-	-
1216P	21.730 [552]	22.562 [573]	6040	381	13.538
1217P	22.562 [573]	23.394 [594]	6355	401	14.244
1218P	23.394 [594]	24.226 [615]	6671	421	14.953
1219P	24.226 [615]	25.058 [636]	6988	441	15.662
1220P	25.058 [636]	25.890 [658]	7304	461	16.372
1221P	25.890 [658]	26.722 [679]	7622	481	17.084
1222P	26.722 [679]	27.554 [700]	7940	501	17.796
1223P	27.554 [700]	28.386 [721]	8258	521	18.509
1224P	28.386 [721]	29.218 [742]	8576	541	19.223
1225P	29.218 [742]	30.05 [763]	8895	561	19.937
1225NP	30.05 [763]	30.05 [763]	-	-	-
1226P	30.05 [763]	30.882 [784]	9214	581	20.652
1227P	30.882 [784]	31.714 [806]	9533	601	21.367
1228P	31.714 [806]	32.546 [827]	9852	622	22.083
1229P	32.546 [827]	33.378 [848]	10172	642	22.800
1230P	33.378 [848]	34.210 [869]	10492	662	23.517

(Neutral channels available for all section numbers)

PREFIX

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

SUFFIX OPTIONS (Check/specify appropriate options)

Adapters

- ___ -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)

- ___ -DCC Ductile Iron Solid Cover - Class C
- ___ -DGC Ductile Iron Slotted Grate - Class C*
- ___ -DGF Ductile Iron Slotted Grate - Class F
- ___ -GDC Galvanized Ductile Iron Grate - Class C
- ___ -GDF Galvanized Ductile Iron Grate - Class F
- ___ -GG Fiberglass Grate
- ___ -HPD Heel-Proof Longitudonal Ductile Iron Grate - Class C

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

- ___ -ADA-USA Meets Americans with Disabilities Act Requirements - Class C
- ___ -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 Slotted Grate - Class C
- ___ -GDF-USA Galvanized Ductile Slotted Grate - Class F

Miscellaneous Options

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

MADE in the U.S.A. Miscellaneous Options

- ___ -CBF Black Acid Resistant Coated Frame
- ___ -DB Bottom Dome Strainer

REV. - DATE: 3/10/11 C.N. NO. 120430

DWG. NO. 303410 PRODUCT NO. Z874-12-HDG

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED