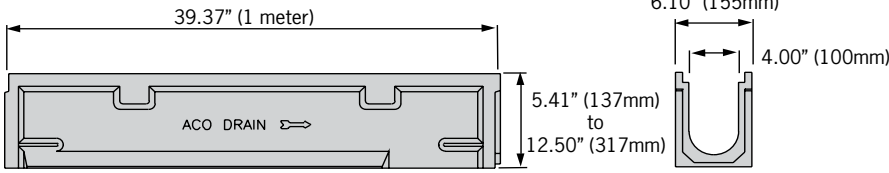
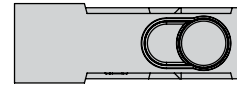
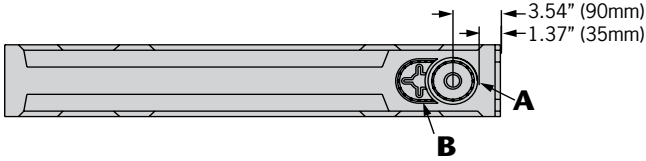
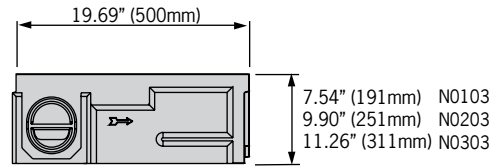


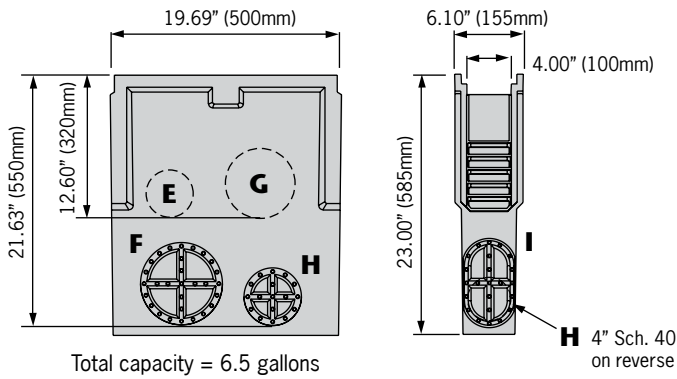
One meter channel



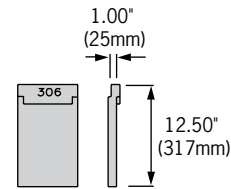
Half meter channel



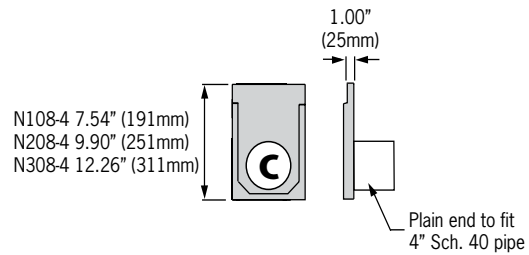
In-line catch basin



Closing cap



4" Inlet/outlet caps

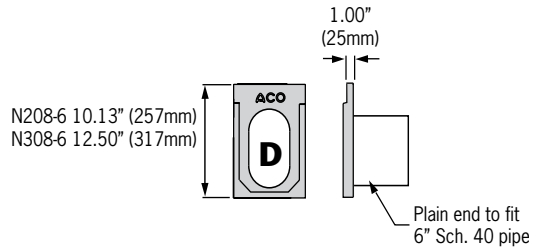


Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
A	Bottom outlet - N1	4" round	4.65	117	0.26
A	Bottom outlet - N30	4" round	11.50	185	0.41
B	Bottom outlet - N1	6" oval	4.65	183	0.40
B	Bottom outlet - N30	6" oval	11.50	288	0.64
C	Outlet cap - N10	4" round	6.77	119	0.27
C	Outlet cap - N30	4" round	11.50	168	0.39
D	Outlet cap - N20	6" oval	9.13	220	0.50
D	Outlet cap - N30	6" oval	11.50	248	0.57
E	N900* catch basin	4" round	12.60	175	0.40
F	N900* catch basin	6" round	21.63	530	1.22
G	N900* catch basin	6" round	12.60	379	0.87
H	N900* catch basin	4" round	21.63	242	0.54
I	N900* catch basin	6" round	21.63	372	0.86

Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates.
 * N900 flow rate without trash bucket - using trash bucket reduces flow

6" Oval Inlet/outlet caps



ACO Specification Information

ACO DRAIN

NW100 channel system



ACO Specification Information

Description	Part No.	Invert Depth		Weight lbs.
		inches	mm	
N1 Sloped channel - 39.37" (1m)	00001	4.41 - 4.65"	112 - 118	32.0
N02 Neutral channel - 39.37" (1m)	05501	4.65"	118	32.9
N2 Sloped channel - 39.37" (1m)	00002	4.65 - 4.88"	118 - 124	32.9
N3 Sloped channel - 39.37" (1m)	00004	4.88 - 5.12"	124 - 130	33.8
N4 Sloped channel - 39.37" (1m)	00005	5.12 - 5.35"	130 - 136	34.7
N5 Sloped channel - 39.37" (1m)	00006	5.35 - 5.59"	136 - 142	35.6
N6 Sloped channel - 39.37" (1m)	00007	5.59 - 5.83"	142 - 148	36.5
N7 Sloped channel - 39.37" (1m)	00008	5.83 - 6.06"	148 - 154	37.4
N8 Sloped channel - 39.37" (1m)	00009	6.06 - 6.30"	154 - 160	38.3
N9 Sloped channel - 39.37" (1m)	00010	6.30 - 6.54"	160 - 166	39.2
N010 Neutral channel - 39.37" (1m)	00011	6.54"	166	40.1
N0103 Neutral channel - 19.69" (0.5m)	00013	6.54"	166	23.0
N10 Sloped channel - 39.37" (1m)	00014	6.54 - 6.77"	166 - 172	40.1
N11 Sloped channel - 39.37" (1m)	00015	6.77 - 7.01"	172 - 178	41.0
N12 Sloped channel - 39.37" (1m)	00016	7.01 - 7.24"	178 - 184	41.9
N13 Sloped channel - 39.37" (1m)	00017	7.24 - 7.48"	184 - 190	42.8
N14 Sloped channel - 39.37" (1m)	00018	7.48 - 7.72"	190 - 196	43.7
N15 Sloped channel - 39.37" (1m)	00019	7.72 - 7.95"	196 - 202	44.6
N16 Sloped channel - 39.37" (1m)	00020	7.95 - 8.19"	202 - 208	45.5
N17 Sloped channel - 39.37" (1m)	00346	8.19 - 8.43"	208 - 214	46.4
N18 Sloped channel - 39.37" (1m)	00021	8.43 - 8.66"	214 - 220	47.3
N19 Sloped channel - 39.37" (1m)	00022	8.66 - 8.90"	220 - 226	48.2
N020 Neutral channel - 39.37" (1m)	00023	8.90"	226	49.1
N0203 Neutral channel - 19.69" (0.5m)	05502	8.90"	226	26.0
N20 Sloped channel - 39.37" (1m)	00024	8.90 - 9.13"	226 - 232	49.1
N21 Sloped channel - 39.37" (1m)	00025	9.13 - 9.37"	232 - 238	50.0
N22 Sloped channel - 39.37" (1m)	00026	9.37 - 9.61"	238 - 244	50.9
N23 Sloped channel - 39.37" (1m)	00027	9.61 - 9.84"	244 - 250	51.8
N24 Sloped channel - 39.37" (1m)	00028	9.84 - 10.08"	250 - 256	52.7
N25 Sloped channel - 39.37" (1m)	00029	10.08 - 10.31"	256 - 262	53.6
N26 Sloped channel - 39.37" (1m)	00030	10.31 - 10.55"	262 - 268	54.5
N27 Sloped channel - 39.37" (1m)	00031	10.55 - 10.79"	268 - 274	55.6
N28 Sloped channel - 39.37" (1m)	00032	10.79 - 11.02"	274 - 280	56.5
N29 Sloped channel - 39.37" (1m)	00033	11.02 - 11.26"	280 - 286	57.4
N030 Neutral channel - 39.37" (1m)	00034	11.26"	286	58.3
N0303 Neutral channel - 19.69" (0.5m)	05503	11.26"	286	31.0
N30 Sloped channel - 39.37" (1m)	00035	11.26 - 11.50"	286 - 292	59.2
Catch basin				
N900 in-line catch basin	05620	22.00	560	62.0
N900 QuickLok bar (removable)	98717	-	-	0.1
Series 900 Plastic trash bucket	01498	-	-	1.1
Accessories				
N306 closing end cap to suit C1-30	01078	-	-	4.2
N104-4 Inlet cap - 4" PVC pipe	05651	-	-	3.2
N204-4 Inlet cap - 4" PVC pipe	05652	-	-	3.2
N304-4 Inlet cap - 4" PVC pipe	05653	-	-	3.6
N204-6 Inlet cap - 6" PVC pipe	91251	-	-	3.2
N304-6 Inlet cap - 6" PVC pipe	91263	-	-	3.6
N108-4 Outlet cap - 4" PVC pipe	05573	-	-	3.2
N208-4 Outlet cap - 4" PVC pipe	05574	-	-	3.2
N308-4 Outlet cap - 4" PVC pipe	05575	-	-	3.6
N208-6 Outlet cap - 6" PVC pipe	91264	-	-	3.2
N308-6 Outlet cap - 6" PVC pipe	91272	-	-	3.6
Type 824 6" Sch. 40 oval to round outlet	95140	-	-	1.1
QuickLok locking bar	02899	-	-	0.1
QuickLok/PowerLok grate removal tool	01318	-	-	0.3

Notes:

1. Preformed 4" dia. & 6" flumed drill-outlet cast on underside of every channel
2. Closing cap can be cut down to suit all channels
3. Add 1" (25mm) for overall depth of channels and catch basin

Specifications

General

The surface drainage system shall be ACO Drain NW100 complete with gratings secured with 'QuickLok' locking as manufactured by ACO Polymer Products, Inc. or equal approved.

Materials

The trench system bodies shall be manufactured from polyester polymer concrete with minimum properties as follows:

- Compressive strength: 14,000 psi
- Flexural strength: 4,000 psi
- Water absorption: 0.07%
- Frost proof
- Salt proof
- Dilute acid and alkali resistant

The nominal clear opening shall be 4.00" (100mm) with overall width of 6.10" (155mm). Pre-cast units shall be manufactured with either an invert slope of 0.6% or with neutral invert and have a wall thickness of at least 0.50" (13mm). Each unit will feature a full radius in the trench bottom and a male to female interconnecting end profile. Units shall have horizontal cast in anchoring features on the outside wall to ensure maximum mechanical bond to the surrounding bedding material and pavement surface.

Grates

Grates should be specified separately. Choose appropriate grate from ACO Spec Info grate sheets for details. After removal of grates and 'QuickLok' bar there shall be uninterrupted access to the trench to aid maintenance.

Installation

The trench drain system shall be installed in accordance with the manufacturer's installation instructions and recommendations.

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