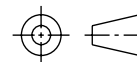
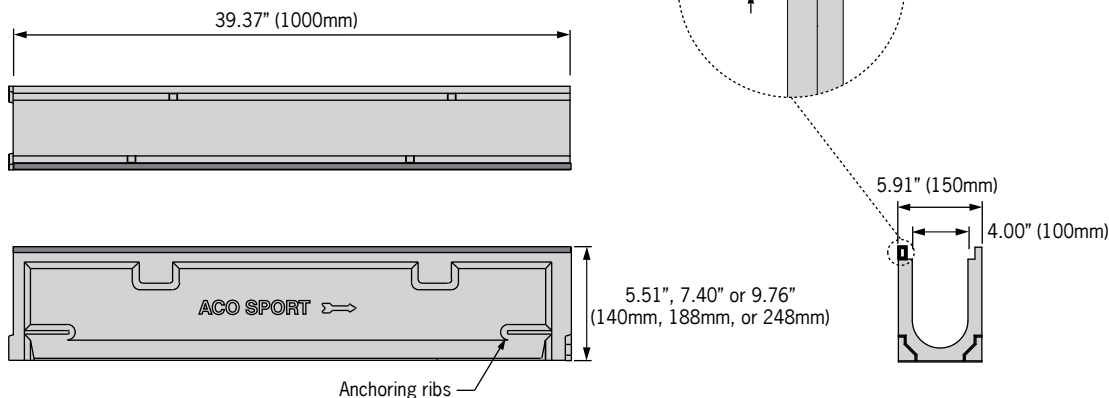


System 4000 - Safety Edge

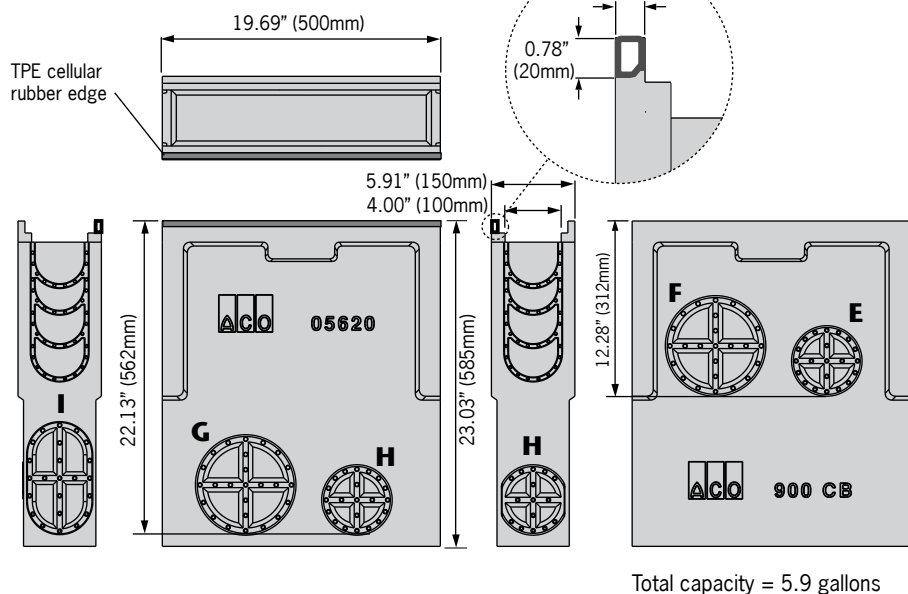
Open channel trench drain system with cellular rubber safety edge



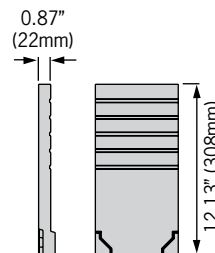
One meter channel



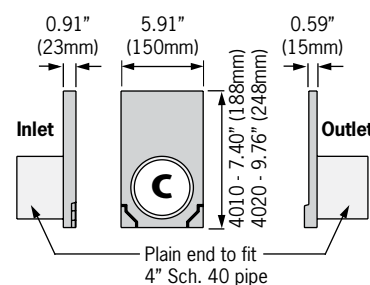
In-line catch basin



Closing cap



4" Inlet/outlet caps

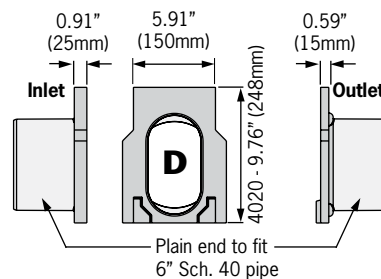


Outlet flow rates

Outlet	Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
C	Outlet cap - 4010SE	4" round	6.50	119	0.27
C	Outlet cap - 4020SE	4" round	8.86	143	0.32
D	Outlet cap - 4020SE	6" oval	8.86	220	0.50
E	In-line catch basin*	4" round	12.40	175	0.40
F	In-line catch basin*	6" round	12.40	379	0.87
G	In-line catch basin*	6" round	22.24	530	1.22
H	In-line catch basin*	4" round	22.24	242	0.54
I	In-line catch basin*	6" oval	22.24	372	0.86

* In-line catch basin flow rate without trash bucket - using trash bucket reduces flow

6" Oval Inlet/outlet caps



ACO Specification Information



ACO SPORT

System 4000 Open channel trench drain system with cellular rubber safety edge

ACO Specification Information

Description	Part No	Invert Depth		Overall Depth		Wgt lbs
		inches	mm	inches	mm	
4002SE Constant depth channel - 39.37" (1m)	06564	4.61	117	5.51	140	32.9
4010SE Constant depth channel - 39.37" (1m)	06565	6.50	165	7.40	188	40.1
4020SE Constant depth channel - 39.37" (1m)	06566	8.86	225	9.76	248	49.1
Catch basin						
In-line catch basin - 19.69" (0.5m)	06567	22.13	562	23.03	585	62.0
QuickLok bar (removable)	98717	-	-	-	-	0.1
Series 900 plastic trash bucket	01498	-	-	-	-	1.1
6" oval to round adapter (fits outlets B & I)	95140	-	-	-	-	-
Accessories						
Debris strainer for 4" bottom knockout (fits outlet A)	93488	-	-	-	-	0.2
Universal closing end cap	137090	-	-	12.13	308	4.5
104-4 Inlet cap with 4" schedule 40 pipe	137091	6.50	165	7.40	188	2.6
108-4 Outlet cap with 4" schedule 40 pipe	137092	6.50	165	7.40	188	2.0
204-4 Inlet cap with 4" schedule 40 pipe	137093	8.86	225	9.76	248	3.7
208-4 Outlet cap with 4" schedule 40 pipe	137094	8.86	225	9.76	248	2.6
204-6 Inlet end cap with 6" schedule 35 pipe	137099	8.86	225	9.76	248	3.3
208-6 Outlet end cap with 6" schedule 35 pipe	137095	8.86	225	9.76	248	2.6

Part I - General

- 1.1 **Related Work** - Work specified in other sections includes: Excavation and backfill, cast-in-place concrete, and mechanical equipment.
- 1.2 **System Description** - Interconnecting, polymer concrete modular trench drainage system.
- 1.3 **Submittals** - On request, shop drawings showing schematic plan of total drainage system listing all parts with center-line dimensions. Copies of manufacturer's recommended installation instructions.
- 1.4 **Project History** - Manufacturer to provide list of installed projects, if required.
- 1.5 **Warranty** - Limited one year product warranty based on installation according to manufacturer's installation instructions (see below).

Part II - Product

- 2.1 **Products** - Manufactured by ACO Polymer Products, Inc.
- 2.2 **Physical & Mechanical Characteristics**
 - Overall width - 5.91 inches (150mm)
 - Internal width - 4.00 inches (100mm)
 - Unit depth - varies - see Product Table
 - Unit length - 39.37 inches (1000mm), or 19.69" (500mm)
 - TPE cellular rubber safety edge
 - Compressive strength - 14,000 psi
 - Flexural strength - 4,000 psi
 - Water absorption rate - <0.1% by weight.
 - ADA compliant to American Disabilities Act of 1990 Section 4.5.4 with appropriate grate (494Q/495Q)
- 2.3 **Channel Profile** - Each unit features a full radius in trench bottom, and male to female interconnecting ends. Horizontal cast-in anchoring features on outside walls to ensure maximum mechanical bond to surrounding bedding material.
- 2.4 **Catch Basins** - Manufactured from polymer concrete, be one half meter (19.69") in length and include a trash bucket (optional).
- 2.5 **Grates** - A choice of QuickLok grates are available. See separate Spec Info sheets for details.

Part III - Installation

- 3.1 **Site Preparation** - Excavate area to accommodate ACO SPORT System 4000 channel and to allow a minimum of 4 inches (100mm) concrete encasement (recommended 4,000psi) on 3 sides to provide necessary support. Top of channel must be evenly aligned to surface of surrounding slab. See installation section for haunch details for different loadings & pavement materials.
- 3.2 **Installation** - Start at outlet or catch basin. Insert channels from above to allow ends to interconnect. Channel sections shall be placed on brick, rebar basket, install device, or low slump concrete slurry to obtain correct finished elevation. Cutting will be made, if required, by masonry or concrete saw. Protect channel from concrete splash during concrete pour. Place concrete in a manner that will not dislodge channels.
- 3.3 **Finishing and Clean-up** - Following final set of concrete, remove channel protection and thoroughly flush system to remove debris.
- 3.4 Install in strict accordance with manufacturer's recommendations and drawings. Full details available at www.ACOSport.us.

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