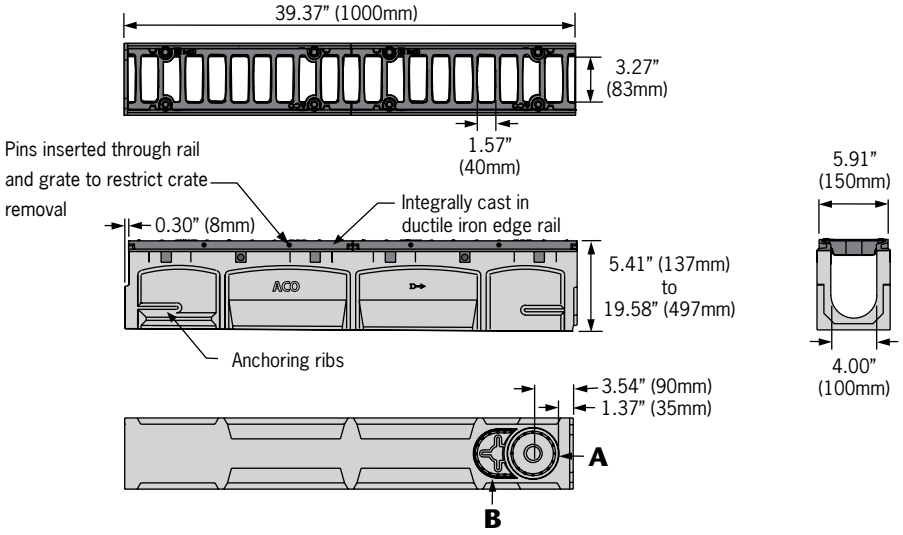
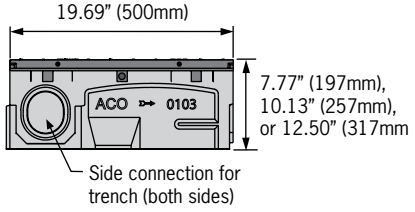
TraffikDrain TD100 Non-Removable Grate NRG

E *up to 2,788 psi*

One Meter Channel

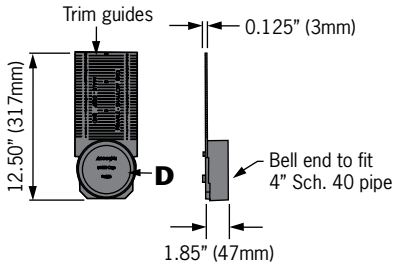


Half Meter Channel



End Caps -

Closing/Inlet/Outlet Cap

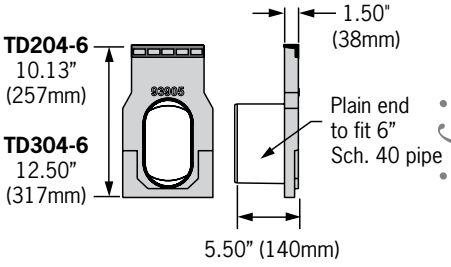


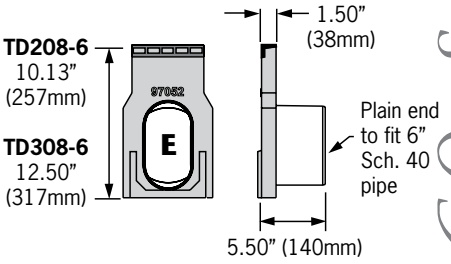
Outlet flow rates

Product	Invert Depth	A - 4" dia GPM	A - 4" dia CFS	B - 6" Oval GPM	B - 6" Oval CFS	D - 4" dia GPM	D - 4" dia CFS	E - 6" Oval GPM	E - 6" Oval CFS
TD01	4.41	95	0.21	155	0.35	-	-	-	-
TD10	6.77	126	0.28	207	0.46	100	0.22	-	-
TD20	9.13	152	0.34	248	0.55	131	0.29	194	0.43
TD30	11.50	173	0.39	283	0.63	155	0.35	238	0.53
TD40	13.86	192	0.43	315	0.70	-	-	-	-
TD50	16.22	210	0.47	343	0.76	-	-	-	-
TD60	18.58	226	0.50	370	0.82	-	-	-	-

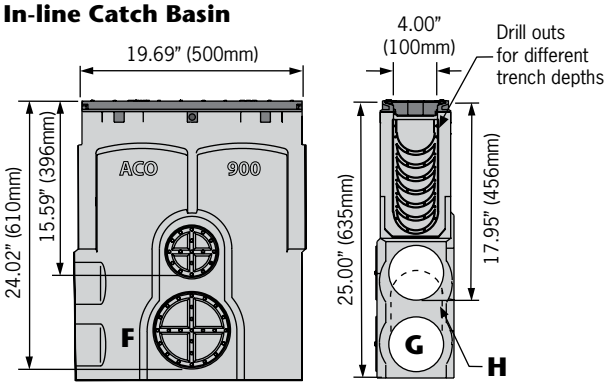
Note: These are the pipe flow rates at the specified outlet, **NOT** channel flow rates.

Oval Inlet Cap





In-line Catch Basin



Outlet flow rates

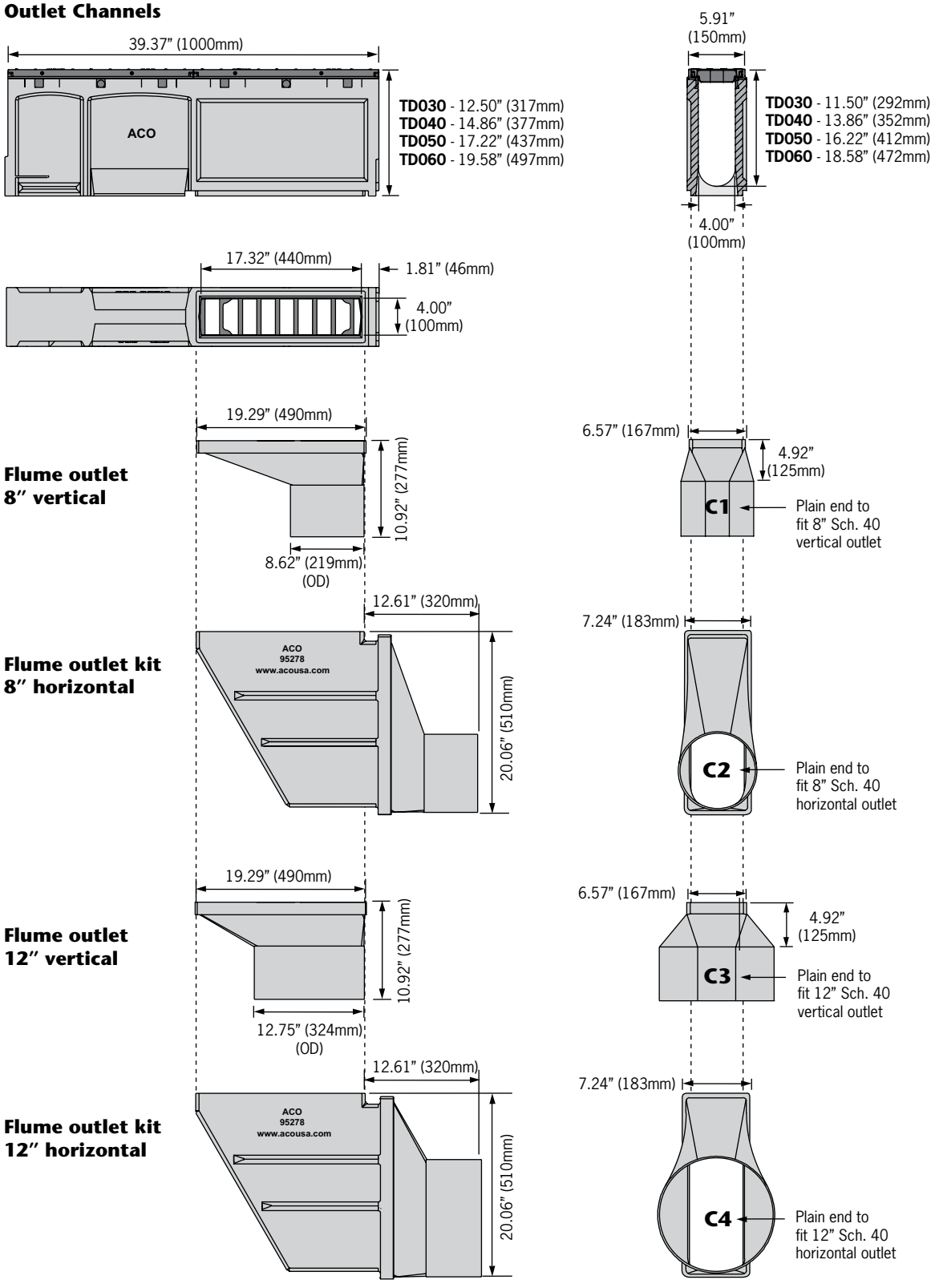
Product	Invert Depth	F - 6" dia GPM	F - 6" dia CFS	G - 6" dia GPM	G - 6" dia CFS	H GPM	H CFS
TD900	24.00	561	1.25	225	0.59	399	0.91

Note: Catch basin flow rates are without trash bucket - using trash bucket reduces flow.

ACO Specification Information

ACO INFRASTRUCTURE

Outlet Channels



Outlet flow rates

	Invert	C1 - 8" V		C2 - 8" H		Invert	C3 - 12" V		C4 - 12" H	
Product	**Depth**	**GPM**	**CFS**	**GPM**	**CFS**	**Depth**	**GPM**	**CFS**	**GPM**	**CFS**
TD030	17.12	872	1.94	1135	2.53	30.96	1962	4.37	2459	5.48
TD040	19.48	934	2.08	1184	2.64	33.32	2102	4.68	2571	5.73
TD050	21.84	992	2.21	1230	2.74	35.68	2232	4.97	2679	5.97
TD060	24.20	1047	2.33	1275	2.84	38.04	2356	5.25	2783	6.20

Note: These are the pipe flow rates at the specified outlet, **NOT** channel flow rates.

ACO INFRASTRUCTURE
TraffikDrain Channels - Parts Table

Description	Part No	Length		Invert Depth - female		Invert Depth - male		Weight
	NRG[1]	inches	*mm*	inches	*mm*	inches	*mm*	lbs
TD01 Neutral channel	**05400**	**39.37**	***1000***	**4.41**	***112***	**4.41**	***112***	**62.7**
TD1 Sloping channel	**05401**	39.37	*1000*	4.41	*112*	4.65	*118*	63.8
TD2 Sloping channel	**05402**	39.37	*1000*	4.65	*118*	4.88	*124*	64.8
TD3 Sloping channel	**05403**	39.37	*1000*	4.88	*124*	5.12	*130*	65.8
TD4 Sloping channel	**05404**	39.37	*1000*	5.12	*130*	5.35	*136*	66.8
TD5 Sloping channel	**05405**	39.37	*1000*	5.35	*136*	5.59	*142*	67.8
TD6 Sloping channel	**05406**	39.37	*1000*	5.59	*142*	5.83	*148*	68.9
TD7 Sloping channel	**05407**	39.37	*1000*	5.83	*148*	6.06	*154*	69.9
TD8 Sloping channel	**05408**	39.37	*1000*	6.06	*154*	6.30	*160*	70.9
TD9 Sloping channel	**05409**	39.37	*1000*	6.30	*160*	6.54	*166*	71.9
TD10 Sloping channel	**05410**	39.37	*1000*	6.54	*166*	6.77	*172*	72.9
TD010 Neutral channel	**05432**	**39.37**	***1000***	**6.77**	***172***	**6.77**	***172***	**73.4**
TD0103 Neutral channel	**05435**	**19.69**	***500***	**6.77**	***172***	**6.77**	***172***	**38.4**
TD11 Sloping channel	**05411**	39.37	*1000*	6.77	*172*	7.01	*178*	73.9
TD12 Sloping channel	**05412**	39.37	*1000*	7.01	*178*	7.24	*184*	74.9
TD13 Sloping channel	**05413**	39.37	*1000*	7.24	*184*	7.48	*190*	75.9
TD14 Sloping channel	**05414**	39.37	*1000*	7.48	*190*	7.72	*196*	76.9
TD15 Sloping channel	**05415**	39.37	*1000*	7.72	*196*	7.95	*202*	77.9
TD16 Sloping channel	**05416**	39.37	*1000*	7.95	*202*	8.19	*208*	79.0
TD17 Sloping channel	**05417**	39.37	*1000*	8.19	*208*	8.43	*214*	80.0
TD18 Sloping channel	**05418**	39.37	*1000*	8.43	*214*	8.66	*220*	81.0
TD19 Sloping channel	**05419**	39.37	*1000*	8.66	*220*	8.90	*226*	82.0
TD20 Sloping channel	**05420**	39.37	*1000*	8.90	*226*	9.13	*232*	83.0
TD020 Neutral channel	**05433**	**39.37**	***1000***	**9.13**	***232***	**9.13**	***232***	**83.6**
TD0203 Neutral channel	**05436**	**19.69**	***500***	**9.13**	***232***	**9.13**	***232***	**42.2**
TD21 Sloping channel	**05421**	39.37	*1000*	9.13	*232*	9.37	*238*	84.0
TD22 Sloping channel	**05422**	39.37	*1000*	9.37	*238*	9.61	*244*	85.0
TD23 Sloping channel	**05423**	39.37	*1000*	9.61	*244*	9.84	*250*	86.0
TD24 Sloping channel	**05424**	39.37	*1000*	9.84	*250*	10.08	*256*	87.0
TD25 Sloping channel	**05425**	39.37	*1000*	10.08	*256*	10.31	*262*	88.0
TD26 Sloping channel	**05426**	39.37	*1000*	10.31	*262*	10.55	*268*	89.1
TD27 Sloping channel	**05427**	39.37	*1000*	10.55	*268*	10.79	*274*	90.1
TD28 Sloping channel	**05428**	39.37	*1000*	10.79	*274*	11.02	*280*	91.1
TD29 Sloping channel	**05429**	39.37	*1000*	11.02	*280*	11.26	*286*	92.1
TD30 Sloping channel	**05430**	39.37	*1000*	11.26	*286*	11.50	*292*	93.1
TD030 Neutral channel	**05434**	**39.37**	***1000***	**11.50**	***292***	**11.50**	***292***	**95.4**
TD0303 Neutral channel	**05437**	**19.69**	***500***	**11.50**	***292***	**11.50**	***292***	**46.4**
TD030 Outlet channel	**05375**	**39.37**	***1000***	**11.50**	***292***	**11.50**	***292***	**90.0**
TD31 Sloping Trench	**05481**	39.37	*1000*	11.50	*292*	11.73	*298*	98.4
TD32 Sloping Trench	**05482**	39.37	*1000*	11.73	*298*	11.97	*304*	101.0
TD33 Sloping Trench	**05483**	39.37	*1000*	11.97	*304*	12.20	*310*	103.6
TD34 Sloping Trench	**05484**	39.37	*1000*	12.20	*310*	12.44	*316*	106.2
TD35 Sloping Trench	**05487**	39.37	*1000*	12.44	*316*	12.68	*322*	106.4
TD36 Sloping Trench	**05488**	39.37	*1000*	12.68	*322*	12.91	*328*	107.5
TD37 Sloping Trench	**05489**	39.37	*1000*	12.91	*328*	13.15	*334*	109.2
TD38 Sloping Trench	**05490**	39.37	*1000*	13.15	*334*	13.39	*340*	111.0
TD39 Sloping Trench	**05491**	39.37	*1000*	13.39	*340*	13.62	*346*	112.8
TD40 Sloping Trench	**05492**	39.37	*1000*	13.62	*346*	13.86	*352*	114.9
TD40 Neutral Trench	**05372**	**39.37**	***1000***	**13.86**	***352***	**13.86**	***352***	114.4
TD40 Outlet Trench	**05376**	**39.37**	***1000***	**13.86**	***352***	**13.86**	***352***	114.4
TD41 Sloping Trench	**05380**	39.37	*1000*	13.86	*352*	14.09	*358*	117.4
TD42 Sloping Trench	**05381**	39.37	*1000*	14.09	*358*	14.33	*364*	118.8
TD43 Sloping Trench	**05382**	39.37	*1000*	14.33	*364*	14.57	*370*	120.2
TD44 Sloping Trench	**05383**	39.37	*1000*	14.57	*370*	14.80	*376*	121.6
TD45 Sloping Trench	**05384**	39.37	*1000*	14.80	*376*	15.04	*382*	122.9
TD46 Sloping Trench	**05385**	39.37	*1000*	15.04	*382*	15.28	*388*	125.4
TD47 Sloping Trench	**05386**	39.37	*1000*	15.28	*388*	15.51	*394*	127.0
TD48 Sloping Trench	**05387**	39.37	*1000*	15.51	*394*	15.75	*400*	128.6
TD49 Sloping Trench	**05388**	39.37	*1000*	15.75	*400*	15.98	*406*	130.2
TD50 Sloping Trench	**05389**	39.37	*1000*	15.98	*406*	16.22	*412*	131.9
TD50 Neutral Trench	**05373**	**39.37**	***1000***	**16.22**	***412***	**16.22**	***412***	**131.4**
TD50 Outlet Trench	**05377**	**39.37**	***1000***	**16.22**	***412***	**16.22**	***412***	**131.4**
TD51 Sloping Trench	**05390**	39.37	*1000*	16.22	*412*	16.46	*418*	135.4
TD52 Sloping Trench	**05391**	39.37	*1000*	16.46	*418*	16.69	*424*	136.6
TD53 Sloping Trench	**05392**	39.37	*1000*	16.69	*424*	16.93	*430*	137.8
TD54 Sloping Trench	**05393**	39.37	*1000*	16.93	*430*	17.17	*436*	139.0
TD55 Sloping Trench	**05394**	39.37	*1000*	17.17	*436*	17.40	*442*	139.9
TD56 Sloping Trench	**05395**	39.37	*1000*	17.40	*442*	17.64	*448*	143.9
TD57 Sloping Trench	**05396**	39.37	*1000*	17.64	*448*	17.87	*454*	145.5
TD58 Sloping Trench	**05397**	39.37	*1000*	17.87	*454*	18.11	*460*	147.1
TD59 Sloping Trench	**05398**	39.37	*1000*	18.11	*460*	18.35	*466*	148.7
TD60 Sloping Trench	**05399**	39.37	*1000*	18.35	*466*	18.58	*472*	150.3
TD60 Neutral Trench	**05374**	**39.37**	***1000***	**18.58**	***472***	**18.58**	***472***	**149.4**
TD60 Outlet Trench	**05378**	**39.37**	***1000***	**18.58**	***472***	**18.58**	***472***	**149.4**

Accessories continued overleaf.

TraffikDrain - Part List

Description	Part No	Length inches	Length *mm*	Invert Depth inches	Invert Depth *mm*	Weight lbs
In-line Catch Basin						
TD900 In-line catch basin	**96478**	19.69	*500*	24.00	*610*	96.5
Type 900 trash bucket	**01498**	-	-	-	-	1.1
Foul air trap	**90854**	-	-	-	-	1.2
Accessories						
Type 824 4" - 6" outlet adapter	**95140**	-	-	-	-	1.1
Flume outlet - 8" vertical	**95279**	-	-	-	-	2.4
Flume outlet kit - 8" horizontal	**95290**	-	-	-	-	7.5
Flume outlet - 12" vertical	**95285**	-	-	-	-	4.5
Flume outlet kit - 12" horizontal	**95287**	-	-	-	-	9.6
Closing/4" Inlet/Outlet cap	**95063**	-	-	-	-	0.4
TD204-6 6" Inlet cap	**93903**	-	-	-	-	4.8
TD208-6 6" Outlet cap	**97048**	-	-	9.13	*232*	4.8
TD304-6 6" Inlet cap	**93905**	-	-	-	-	6.1
TD308-6 6" Outlet cap	**97052**	-	-	11.50	*292*	6.1
TD100 installation device - joint clamp	**95286**	22.25	*565*	-	-	3.3
TD100 installation device - hanger clip	**95289**	-	-	-	-	0.6

Notes:
1. TraffikDrain is sold complete, i.e., channel with non removable grate (NRG).
2. Catch basins have removable bolted grates to allow access to pipework
3. Add nominal 1" (25mm) to invert depth for overall trench unit depth.
4. Preformed 4" dia. & 6" flumed drill-out outlet cast on underside of every channel (except outlet channel - 96448).
5. Closing/4" inlet/outlet cap can be cut down to suit all channels.
6. 6" Inlet & outlet caps cannot be cut to size.

Specifications

General
The surface drainage system shall be ACO INFRASTRUCTURE TraffikDrain complete with gratings permenantly locked by NRG mechanism as manufactured by ACO, 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 - B117 Salt Spray Test compliant
Dilute acid and alkali resistant

The nominal clear opening shall be 4.00" (100mm) with overall width of 6.375" (162mm). Modular units shall be manufactured with either an invert slope of 0.6% or with neutral invert and have a wall thickness of at least 0.67" (16mm). 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.

The ductile iron edge rail will be integrally cast in by the manufacturer to ensure maximum homogeneity between polymer concrete body and edge rail. Each edge rail shall be at least 0.25" (6mm) thick.

Grates
Grates are manufactured from ductile iron to ASTM A536-84 and shall be certified to load class E600 as defined by EN 1433 or able to withstand loadings up to 2,788 psi. Trench grates feature 60% (38.92 sq. ins. per linear ft.) open area for maximum hydraulic efficiency. Each trench grate shall be permenantly fixed during manufacture; held by 2 sprung steel pins inserted horizontally through the ductile iron frame cast into the body and through the side wall of the grate. Catch basin grates are removable for maintenance purposes and bolted in place.

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

ACO, Inc.

West Sales Office
825 W Beechcraft St.
Casa Grande, AZ 85122
Tel (520) 421-9988
(888) 809-4506
Fax (520) 421-9899

Northeast Sales Office
9470 Pinecone Dr.
Mentor, OH 44060
Tel (440) 639-7230
(800) 543-4764
Fax (440) 639-7235

Southeast Sales Office
4211 Pleasant Road
Fort Mill, SC 29708
Tel (800) 543-4764
(800) 543-4764
Fax (803) 802-1063

Follow us on

Electronic Contact:
info@acousa.com
www.acousa.com

SPEC INFO ACO