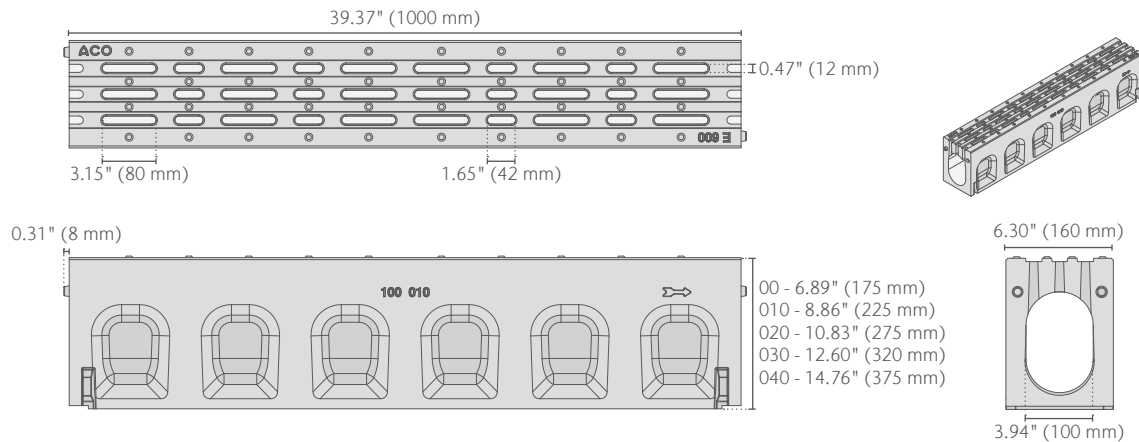
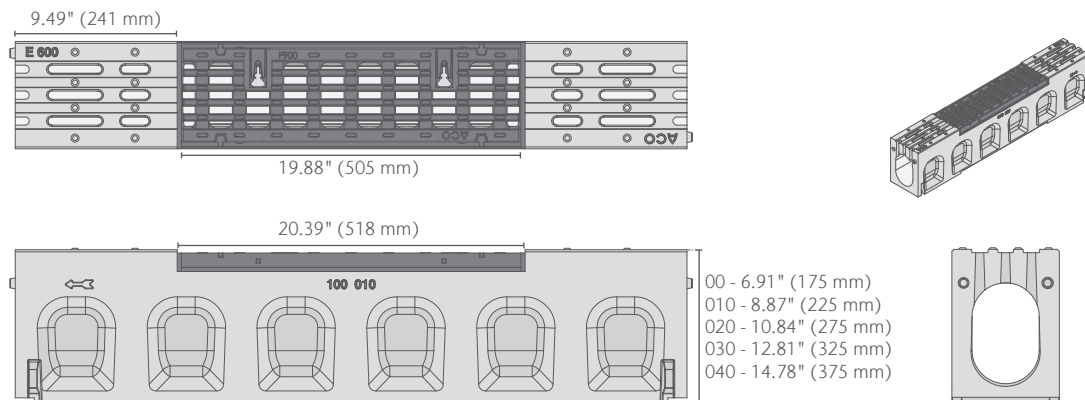


MonoBloc ADA 100 Spec Sheet

Channel



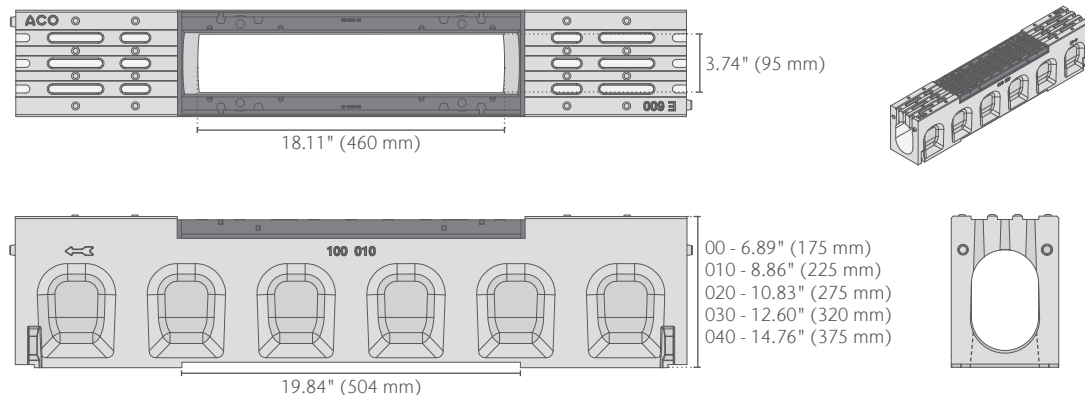
Access Channel



Note: Includes Ductile Iron Longitudinal Grate, part no. 96096.

Catch Basin Access Channel

Grate removed for visual of bottom hole.



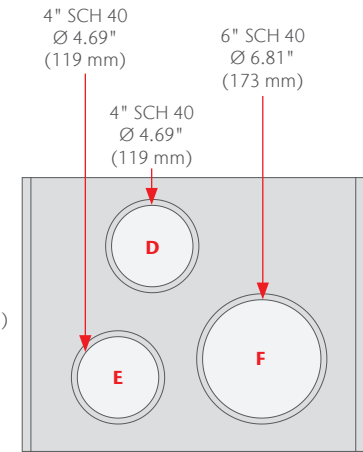
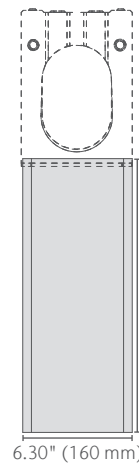
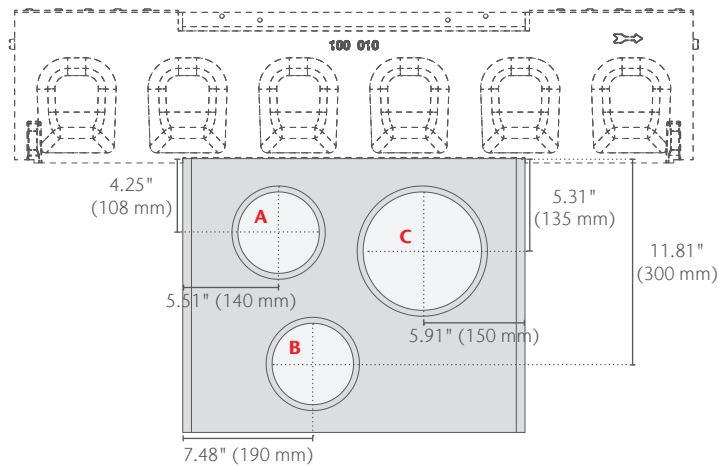
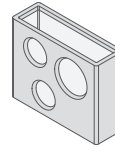
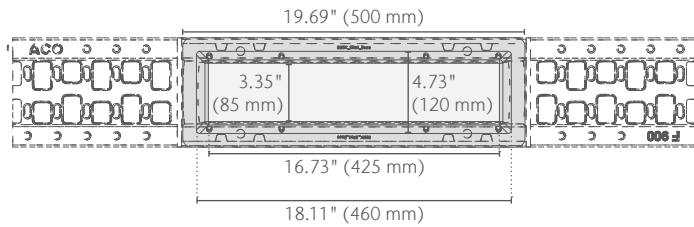
Note: Includes Ductile Iron Longitudinal Grate, part no. 96096.



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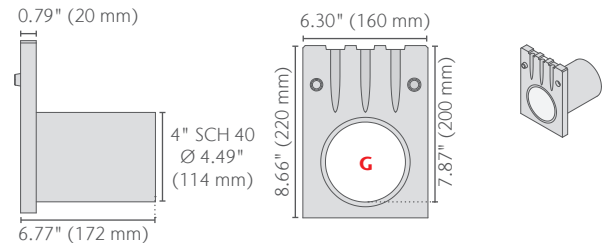
MonoBloc ADA 100 Spec Sheet

In-line Catch Basin part no. 954319

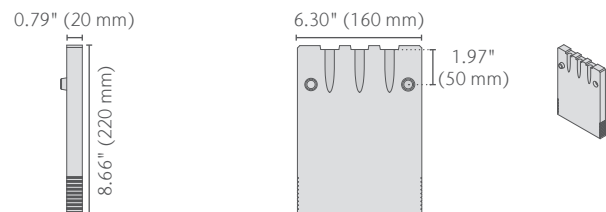


Outlet	Outlet Type	Outlet Size SCH 40	Outlet Form	Invert Depth in (mm)	Flow Rate GPM	Flow Rate CFS
A	In-line Catch Basin	4"	00	12.72 (323)	157	0.35
			010	14.69 (373)	174	0.39
			020	16.65 (423)	190	0.42
			030	18.62 (473)	205	0.46
			040	20.59 (523)	218	0.49
B	In-line Catch Basin	4"	00	20.28 (515)	216	0.48
			010	22.24 (565)	229	0.51
			020	24.21 (615)	242	0.54
			030	26.18 (665)	253	0.56
			040	28.15 (715)	264	0.59
C	In-line Catch Basin	6"	00	14.80 (376)	374	0.83
			010	16.77 (426)	412	0.92
			020	18.74 (476)	446	0.99
			030	20.71 (526)	478	1.06
			040	22.68 (576)	508	1.13
D	In-line Catch Basin	4"	00	12.40 (315)	153	0.34
			010	14.37 (365)	171	0.38
			020	16.34 (415)	187	0.42
			030	18.31 (465)	202	0.45
			040	20.28 (515)	216	0.48
E	In-line Catch Basin	4"	00	19.96 (507)	214	0.48
			010	21.93 (557)	227	0.51
			020	23.90 (607)	240	0.53
			030	25.87 (657)	251	0.56
			040	27.83 (707)	263	0.59
F	In-line Catch Basin	6"	00	19.92 (506)	465	1.04
			010	21.89 (556)	496	1.10
			020	23.86 (606)	525	1.17
			030	25.83 (656)	552	1.23
			040	27.80 (706)	578	1.29
G	Outlet End Cap	4"	010	8.03 (204)	103	0.23
			020	10.00 (254)	128	0.29
			030	11.97 (304)	149	0.33
			040	13.94 (354)	168	0.37

Outlet End Cap



End Cap



Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates.
Catch basin flow rates are without trash bucket (trash bucket reduces flow).



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MonoBloc ADA 100 Spec Sheet

MonoBloc ADA 100 Channels	Part No.	Length in (mm)	Invert Depth Female in (mm)	Invert Depth Male in (mm)	Weight lbs
MonoBloc ADA 100 - 00 Neutral Channel	954321	39.37 (1,000)	5.91 (150)	5.91 (150)	81.4
MonoBloc ADA 100 - 00 Access Channel	954326	39.37 (1,000)	5.91 (150)	5.91 (150)	76.9
MonoBloc ADA 100 - 00 Catch Basin Access Channel	954331	39.37 (1,000)	5.91 (150)	5.91 (150)	82.0
MonoBloc ADA 100 - 01 Sloping Channel	954260	39.37 (1,000)	6.10 (155)	6.26 (159)	81.7
MonoBloc ADA 100 - 02 Sloping Channel	954261	39.37 (1,000)	6.30 (160)	6.46 (164)	82.7
MonoBloc ADA 100 - 03 Sloping Channel	954262	39.37 (1,000)	6.50 (165)	6.65 (169)	83.6
MonoBloc ADA 100 - 04 Sloping Channel	954263	39.37 (1,000)	6.69 (170)	6.85 (174)	84.5
MonoBloc ADA 100 - 05 Sloping Channel	954264	39.37 (1,000)	6.89 (175)	7.05 (179)	85.5
MonoBloc ADA 100 - 06 Sloping Channel	954265	39.37 (1,000)	7.09 (180)	7.24 (184)	86.4
MonoBloc ADA 100 - 07 Sloping Channel	954266	39.37 (1,000)	7.28 (185)	7.44 (189)	87.3
MonoBloc ADA 100 - 08 Sloping Channel	954267	39.37 (1,000)	7.48 (190)	7.64 (194)	88.2
MonoBloc ADA 100 - 09 Sloping Channel	954268	39.37 (1,000)	7.68 (195)	7.83 (199)	89.3
MonoBloc ADA 100 - 10 Sloping Channel	954269	39.37 (1,000)	7.87 (200)	8.03 (204)	90.0
MonoBloc ADA 100 - 010 Neutral Channel	954322	39.37 (1,000)	7.87 (200)	7.87 (200)	90.2
MonoBloc ADA 100 - 010 Access Channel	954327	39.37 (1,000)	7.87 (200)	7.87 (200)	85.0
MonoBloc ADA 100 - 010 Catch Basin Access Channel	954332	39.37 (1,000)	7.87 (200)	7.87 (200)	90.7
MonoBloc ADA 100 - 11 Sloping Channel	954270	39.37 (1,000)	8.07 (205)	8.23 (209)	90.9
MonoBloc ADA 100 - 12 Sloping Channel	954271	39.37 (1,000)	8.27 (210)	8.43 (214)	91.8
MonoBloc ADA 100 - 13 Sloping Channel	954272	39.37 (1,000)	8.46 (215)	8.62 (219)	92.8
MonoBloc ADA 100 - 14 Sloping Channel	954273	39.37 (1,000)	8.66 (220)	8.82 (224)	93.7
MonoBloc ADA 100 - 15 Sloping Channel	954274	39.37 (1,000)	8.86 (225)	9.02 (229)	94.6
MonoBloc ADA 100 - 16 Sloping Channel	954275	39.37 (1,000)	9.06 (230)	9.21 (234)	95.5
MonoBloc ADA 100 - 17 Sloping Channel	954276	39.37 (1,000)	9.25 (235)	9.41 (239)	96.4
MonoBloc ADA 100 - 18 Sloping Channel	954277	39.37 (1,000)	9.45 (240)	9.61 (244)	97.3
MonoBloc ADA 100 - 19 Sloping Channel	954278	39.37 (1,000)	9.65 (245)	9.80 (249)	98.2
MonoBloc ADA 100 - 20 Sloping Channel	954279	39.37 (1,000)	9.84 (250)	10.00 (254)	99.0
MonoBloc ADA 100 - 020 Neutral Channel	954323	39.37 (1,000)	9.84 (250)	9.84 (250)	98.9
MonoBloc ADA 100 - 020 Access Channel	954328	39.37 (1,000)	9.84 (250)	9.84 (250)	107.5
MonoBloc ADA 100 - 020 Catch Basin Access Channel	954333	39.37 (1,000)	9.84 (250)	9.84 (250)	99.5
MonoBloc ADA 100 - 21 Sloping Channel	954280	39.37 (1,000)	10.04 (255)	10.20 (259)	99.9
MonoBloc ADA 100 - 22 Sloping Channel	954281	39.37 (1,000)	10.24 (260)	10.39 (264)	100.8
MonoBloc ADA 100 - 23 Sloping Channel	954282	39.37 (1,000)	10.43 (265)	10.59 (269)	101.7
MonoBloc ADA 100 - 24 Sloping Channel	954283	39.37 (1,000)	10.63 (270)	10.79 (274)	102.7
MonoBloc ADA 100 - 25 Sloping Channel	954284	39.37 (1,000)	10.83 (275)	10.98 (279)	103.6
MonoBloc ADA 100 - 26 Sloping Channel	954285	39.37 (1,000)	11.02 (280)	11.18 (284)	104.4
MonoBloc ADA 100 - 27 Sloping Channel	954286	39.37 (1,000)	11.22 (285)	11.38 (289)	105.3
MonoBloc ADA 100 - 28 Sloping Channel	954287	39.37 (1,000)	11.42 (290)	11.57 (294)	106.2
MonoBloc ADA 100 - 29 Sloping Channel	954288	39.37 (1,000)	11.61 (295)	11.77 (299)	107.1
MonoBloc ADA 100 - 30 Sloping Channel	954289	39.37 (1,000)	11.81 (300)	11.97 (304)	107.9
MonoBloc ADA 100 - 030 Neutral Channel	954324	39.37 (1,000)	11.81 (300)	11.81 (300)	107.5
MonoBloc ADA 100 - 030 Access Channel	954329	39.37 (1,000)	11.81 (300)	11.81 (300)	116.1
MonoBloc ADA 100 - 030 Catch Basin Access Channel	954334	39.37 (1,000)	11.81 (300)	11.81 (300)	108.1
MonoBloc ADA 100 - 31 Sloping Channel	954290	39.37 (1,000)	12.01 (305)	12.17 (309)	108.8
MonoBloc ADA 100 - 32 Sloping Channel	954291	39.37 (1,000)	12.20 (310)	12.36 (314)	109.7
MonoBloc ADA 100 - 33 Sloping Channel	954292	39.37 (1,000)	12.40 (315)	12.56 (319)	110.5
MonoBloc ADA 100 - 34 Sloping Channel	954293	39.37 (1,000)	12.60 (320)	12.76 (324)	111.4
MonoBloc ADA 100 - 35 Sloping Channel	954294	39.37 (1,000)	12.80 (325)	12.95 (329)	112.3
MonoBloc ADA 100 - 36 Sloping Channel	954295	39.37 (1,000)	12.99 (330)	13.15 (334)	113.1
MonoBloc ADA 100 - 37 Sloping Channel	954296	39.37 (1,000)	13.19 (335)	13.35 (339)	114.0
MonoBloc ADA 100 - 38 Sloping Channel	954297	39.37 (1,000)	13.39 (340)	13.54 (344)	114.9
MonoBloc ADA 100 - 39 Sloping Channel	954298	39.37 (1,000)	13.58 (345)	13.74 (349)	115.7
MonoBloc ADA 100 - 40 Sloping Channel	954299	39.37 (1,000)	13.78 (350)	13.94 (354)	116.6
MonoBloc ADA 100 - 040 Neutral Channel	954325	39.37 (1,000)	13.78 (350)	13.78 (350)	115.8
MonoBloc ADA 100 - 040 Access Channel	954330	39.37 (1,000)	13.78 (350)	13.78 (350)	124.5
MonoBloc ADA 100 - 040 Catch Basin Access Channel	954335	39.37 (1,000)	13.78 (350)	13.78 (350)	116.5

Add nominal 1.00" (25 mm) to invert depth male for overall trench unit depth.



MonoBloc ADA 100 Spec Sheet

MonoBloc ADA 100 Accessories

	Part No.	Length in (mm)	Invert Depth in (mm)	Weight lbs
In-line Catch Basin	954319	19.69 (500)	18.90 (480)	59.7
010 End Cap	954347	-	-	3.4
020 End Cap	954348	-	-	4.2
030 End Cap	954349	-	-	5.0
040 End Cap	954350	-	-	5.8
010 Outlet End Cap	954351	-	-	4.2
020 Outlet End Cap	954352	-	-	5.0
030 Outlet End Cap	954353	-	-	5.8
040 Outlet End Cap	954354	-	-	6.6



Specification Summary

General

The surface drainage system shall be ACO Infrastructure MonoBloc ADA 100 as manufactured by ACO, Inc. or approved equal.

Grates

Grate openings shall be monolithically cast as part of the trench drain body as a single piece. Grate openings provide 24% (11.25 in² per linear ft.) open area for maximum hydraulic efficiency. Access shall be via ductile iron 4-bolt access covers with stainless steel M10 x 30 bolts on all access and outlet channels.

Installation

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

Materials

The trench system and catch basin 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 - Compliant with B117 Salt Spray Test
- Dilute acid and alkali-resistant

The nominal clear opening shall be 3.94" (100 mm) with overall width of 6.30" (160 mm). Modular units shall be manufactured with neutral invert and have a wall thickness of at least 0.39" (10 mm).

Each unit will feature a full radius in the trench bottom and a male to female interconnecting end profile. Units shall have cast in anchoring features on the outside wall to ensure maximum mechanical bond to the surrounding bedding material and pavement surface. Trench system shall be certified to load class E600 as defined by EN 1433 or able to withstand loadings up to 2,785 psi. Slip resistance has been tested via ASTM E303-22 Pendulum Slip Resistance Test, contact ACO for specific test results. ACO recommends selecting product with similar PTV values as surrounding finish.



EN 1433 Load Class E
134,885 lbs – 2,785 psi



ADA-compliant per The Americans with Disabilities Act of 2010, Section 302.3

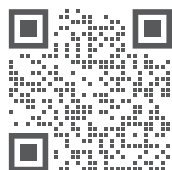


ASTM E303-22 Pendulum
Slip Resistance Test

ACO, Inc.

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info@acousa.com
www.acousa.com

