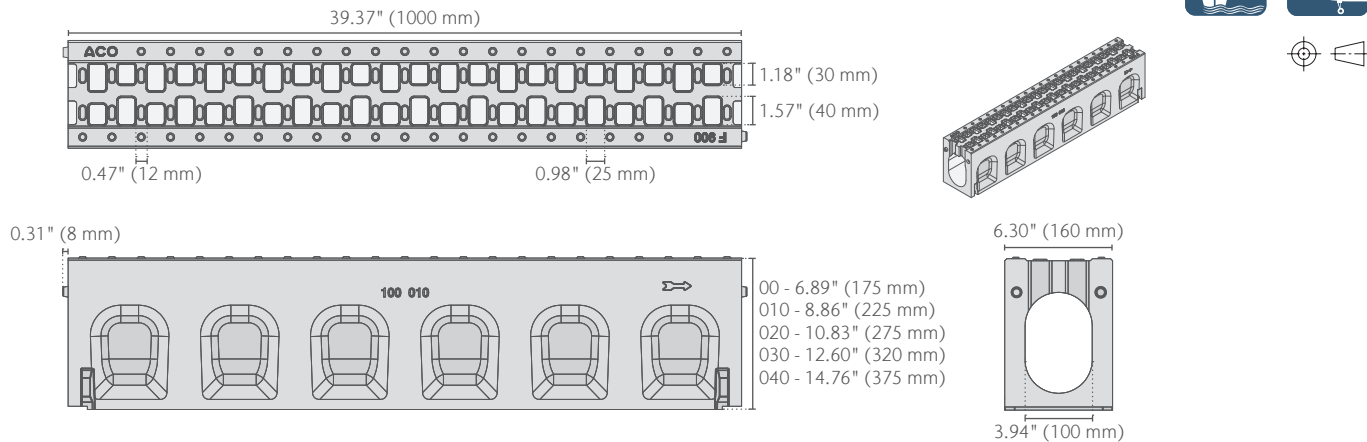


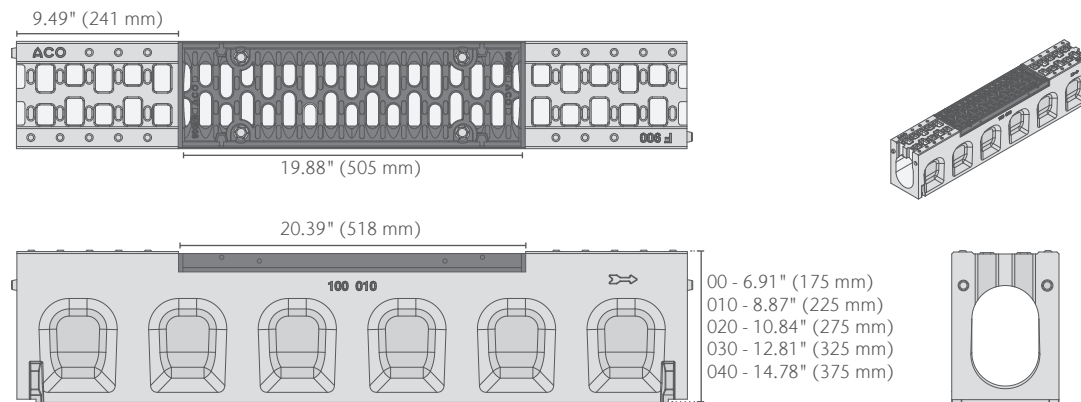
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MonoBloc HD 100 Spec Sheet

Channel



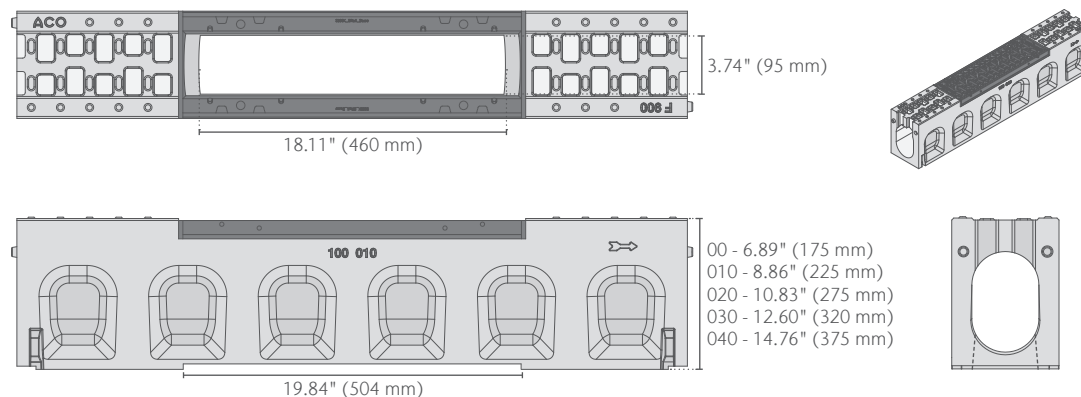
Access Channel



Note: Includes 4-Bolt (M10 x 30) Removeable Ductile Iron Grate, part no. 99590.

Catch Basin Access Channel

Grate removed for visual of bottom hole.



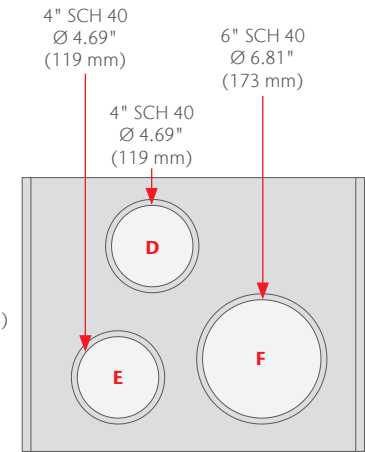
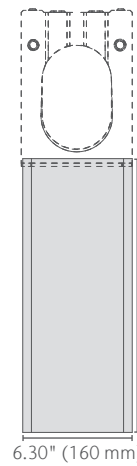
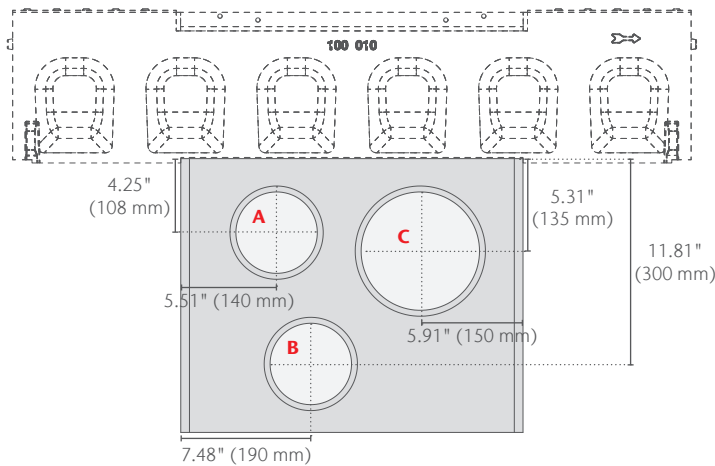
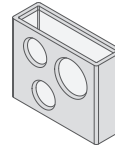
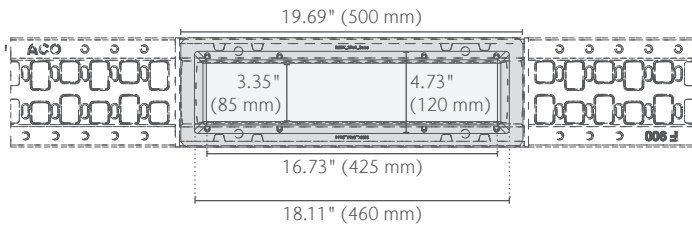
Note: Includes 4-Bolt (M10 x 30) Removeable Ductile Iron Grate, part no. 99590.



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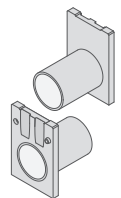
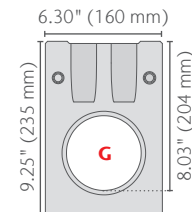
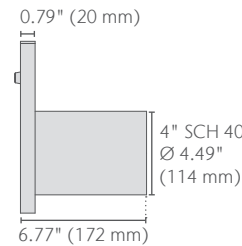
MonoBloc HD 100 Spec Sheet

In-line Catch Basin part no. 954319

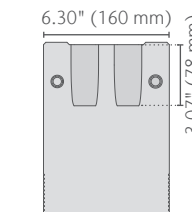
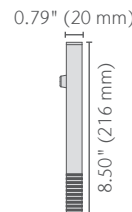


Outlet	Outlet Type	Outlet Size SCH 40	Outlet Form	Invert Depth in (mm)	Flow Rate GPM	Flow Rate CFS
A	In-line Catch Basin	4"	00	12.72 (323)	157	0.35
			010	14.69 (373)	174	0.39
			020	16.65 (423)	190	0.42
			030	18.62 (473)	205	0.46
			040	20.59 (523)	218	0.49
B	In-line Catch Basin	4"	00	20.28 (515)	216	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 HD 100 Spec Sheet

MonoBloc HD 100 Channels	Part No.	Length in (mm)	Invert Depth Female in (mm)	Invert Depth Male in (mm)	Weight lbs
MonoBloc HD 100 - 00 Neutral Channel	954304	39.37 (1,000)	5.91 (150)	5.91 (150)	77.4
MonoBloc HD 100 - 00 Access Channel	954309	39.37 (1,000)	5.91 (150)	5.91 (150)	85.2
MonoBloc HD 100 - 00 Catch Basin Access Channel	954314	39.37 (1,000)	5.91 (150)	5.91 (150)	76.2
MonoBloc HD 100 - 01 Sloping Channel	954220	39.37 (1,000)	6.10 (155)	6.26 (159)	77.7
MonoBloc HD 100 - 02 Sloping Channel	954221	39.37 (1,000)	6.30 (160)	6.46 (164)	78.7
MonoBloc HD 100 - 03 Sloping Channel	954222	39.37 (1,000)	6.50 (165)	6.65 (169)	79.6
MonoBloc HD 100 - 04 Sloping Channel	954223	39.37 (1,000)	6.69 (170)	6.85 (174)	80.5
MonoBloc HD 100 - 05 Sloping Channel	954224	39.37 (1,000)	6.89 (175)	7.05 (179)	81.5
MonoBloc HD 100 - 06 Sloping Channel	954225	39.37 (1,000)	7.09 (180)	7.24 (184)	82.4
MonoBloc HD 100 - 07 Sloping Channel	954226	39.37 (1,000)	7.28 (185)	7.44 (189)	83.3
MonoBloc HD 100 - 08 Sloping Channel	954227	39.37 (1,000)	7.48 (190)	7.64 (194)	84.2
MonoBloc HD 100 - 09 Sloping Channel	954228	39.37 (1,000)	7.68 (195)	7.83 (199)	85.3
MonoBloc HD 100 - 10 Sloping Channel	954229	39.37 (1,000)	7.87 (200)	8.03 (204)	86.0
MonoBloc HD 100 - 010 Neutral Channel	954305	39.37 (1,000)	7.87 (200)	7.87 (200)	86.1
MonoBloc HD 100 - 010 Access Channel	954310	39.37 (1,000)	7.87 (200)	7.87 (200)	93.9
MonoBloc HD 100 - 010 Catch Basin Access Channel	954315	39.37 (1,000)	7.87 (200)	7.87 (200)	85.9
MonoBloc HD 100 - 11 Sloping Channel	954230	39.37 (1,000)	8.07 (205)	8.23 (209)	86.9
MonoBloc HD 100 - 12 Sloping Channel	954231	39.37 (1,000)	8.27 (210)	8.43 (214)	87.8
MonoBloc HD 100 - 13 Sloping Channel	954232	39.37 (1,000)	8.46 (215)	8.62 (219)	88.8
MonoBloc HD 100 - 14 Sloping Channel	954233	39.37 (1,000)	8.66 (220)	8.82 (224)	89.7
MonoBloc HD 100 - 15 Sloping Channel	954234	39.37 (1,000)	8.86 (225)	9.02 (229)	90.6
MonoBloc HD 100 - 16 Sloping Channel	954235	39.37 (1,000)	9.06 (230)	9.21 (234)	91.5
MonoBloc HD 100 - 17 Sloping Channel	954236	39.37 (1,000)	9.25 (235)	9.41 (239)	92.4
MonoBloc HD 100 - 18 Sloping Channel	954237	39.37 (1,000)	9.45 (240)	9.61 (244)	93.3
MonoBloc HD 100 - 19 Sloping Channel	954238	39.37 (1,000)	9.65 (245)	9.80 (249)	94.2
MonoBloc HD 100 - 20 Sloping Channel	954239	39.37 (1,000)	9.84 (250)	10.00 (254)	95.0
MonoBloc HD 100 - 020 Neutral Channel	954306	39.37 (1,000)	9.84 (250)	9.84 (250)	94.8
MonoBloc HD 100 - 020 Access Channel	954311	39.37 (1,000)	9.84 (250)	9.84 (250)	102.7
MonoBloc HD 100 - 020 Catch Basin Access Channel	954316	39.37 (1,000)	9.84 (250)	9.84 (250)	94.6
MonoBloc HD 100 - 21 Sloping Channel	954240	39.37 (1,000)	10.04 (255)	10.20 (259)	95.9
MonoBloc HD 100 - 22 Sloping Channel	954241	39.37 (1,000)	10.24 (260)	10.39 (264)	96.8
MonoBloc HD 100 - 23 Sloping Channel	954242	39.37 (1,000)	10.43 (265)	10.59 (269)	97.7
MonoBloc HD 100 - 24 Sloping Channel	954243	39.37 (1,000)	10.63 (270)	10.79 (274)	98.7
MonoBloc HD 100 - 25 Sloping Channel	954244	39.37 (1,000)	10.83 (275)	10.98 (279)	99.6
MonoBloc HD 100 - 26 Sloping Channel	954245	39.37 (1,000)	11.02 (280)	11.18 (284)	100.4
MonoBloc HD 100 - 27 Sloping Channel	954246	39.37 (1,000)	11.22 (285)	11.38 (289)	101.3
MonoBloc HD 100 - 28 Sloping Channel	954247	39.37 (1,000)	11.42 (290)	11.57 (294)	102.2
MonoBloc HD 100 - 29 Sloping Channel	954248	39.37 (1,000)	11.61 (295)	11.77 (299)	103.1
MonoBloc HD 100 - 30 Sloping Channel	954249	39.37 (1,000)	11.81 (300)	11.97 (304)	103.9
MonoBloc HD 100 - 030 Neutral Channel	954307	39.37 (1,000)	11.81 (300)	11.81 (300)	103.4
MonoBloc HD 100 - 030 Access Channel	954312	39.37 (1,000)	11.81 (300)	11.81 (300)	111.2
MonoBloc HD 100 - 030 Catch Basin Access Channel	954317	39.37 (1,000)	11.81 (300)	11.81 (300)	103.2
MonoBloc HD 100 - 31 Sloping Channel	954250	39.37 (1,000)	12.01 (305)	12.17 (309)	104.8
MonoBloc HD 100 - 32 Sloping Channel	954251	39.37 (1,000)	12.20 (310)	12.36 (314)	105.7
MonoBloc HD 100 - 33 Sloping Channel	954252	39.37 (1,000)	12.40 (315)	12.56 (319)	106.5
MonoBloc HD 100 - 34 Sloping Channel	954253	39.37 (1,000)	12.60 (320)	12.76 (324)	107.4
MonoBloc HD 100 - 35 Sloping Channel	954254	39.37 (1,000)	12.80 (325)	12.95 (329)	108.3
MonoBloc HD 100 - 36 Sloping Channel	954255	39.37 (1,000)	12.99 (330)	13.15 (334)	109.1
MonoBloc HD 100 - 37 Sloping Channel	954256	39.37 (1,000)	13.19 (335)	13.35 (339)	110.0
MonoBloc HD 100 - 38 Sloping Channel	954257	39.37 (1,000)	13.39 (340)	13.54 (344)	110.9
MonoBloc HD 100 - 39 Sloping Channel	954258	39.37 (1,000)	13.58 (345)	13.74 (349)	111.7
MonoBloc HD 100 - 40 Sloping Channel	954259	39.37 (1,000)	13.78 (350)	13.94 (354)	112.6
MonoBloc HD 100 - 040 Neutral Channel	954308	39.37 (1,000)	13.78 (350)	13.78 (350)	109.4
MonoBloc HD 100 - 040 Access Channel	954313	39.37 (1,000)	13.78 (350)	13.78 (350)	113.6
MonoBloc HD 100 - 040 Catch Basin Access Channel	954318	39.37 (1,000)	13.78 (350)	13.78 (350)	111.5

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



MonoBloc HD 100 Spec Sheet

MonoBloc HD 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
00 End Cap	954302	-	-	3.7
010 End Cap	954339	-	-	3.4
020 End Cap	954340	-	-	4.2
030 End Cap	954341	-	-	5.0
040 End Cap	954342	-	-	5.8
010 Outlet End Cap	954343	-	-	3.6
020 Outlet End Cap	954344	-	-	4.4
030 Outlet End Cap	954345	-	-	5.2
040 Outlet End Cap	954346	-	-	6.0



Specification Summary

General

The surface drainage system shall be ACO Infrastructure MonoBloc HD 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 40% (19.0 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 F 900 as defined by EN 1433 or able to withstand loadings up to 4,177 psi.



EN1433 Load Class F
202,328 lbs – 4,177 psi

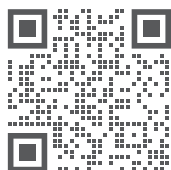


FAA Airside
200K lb Proof Load

ACO, Inc.

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