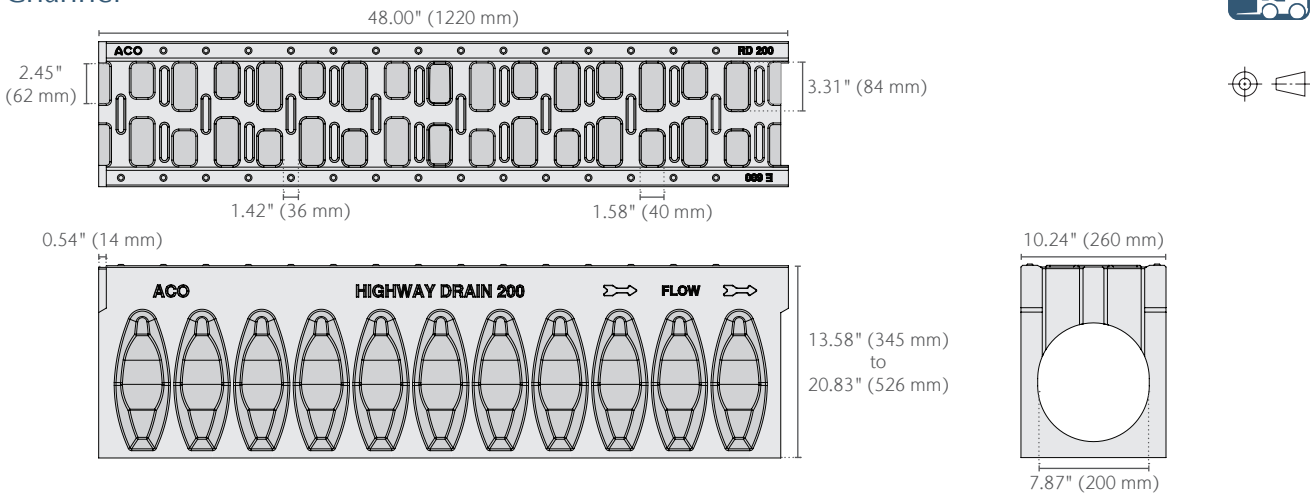
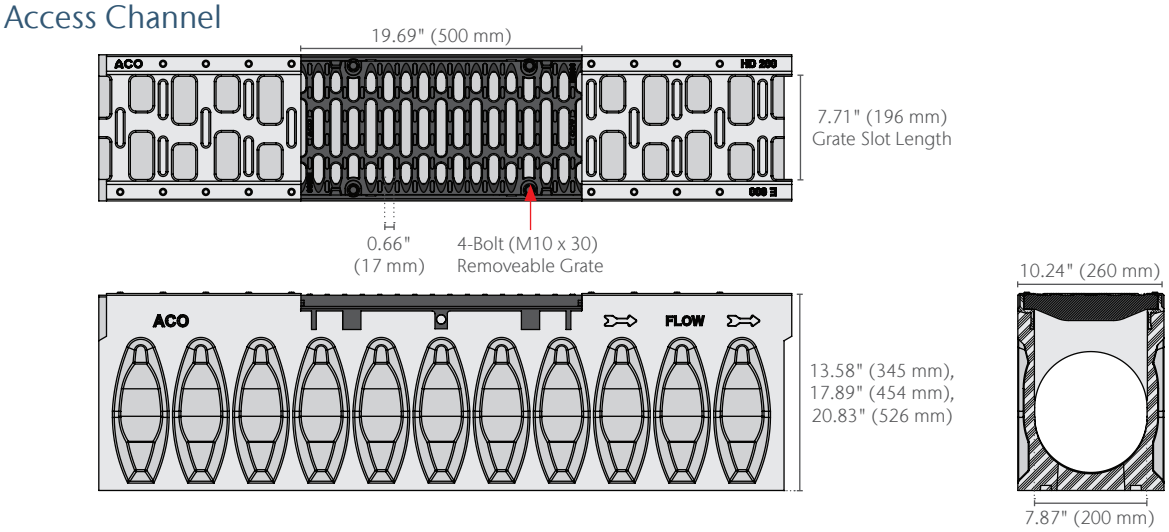
MonoBloc HD200 Spec Sheet

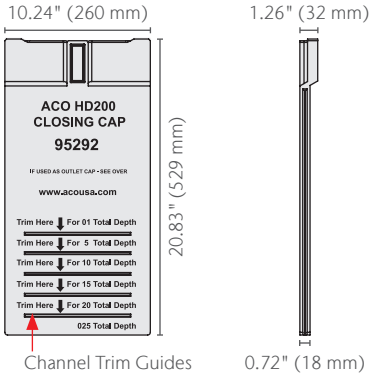
Channel



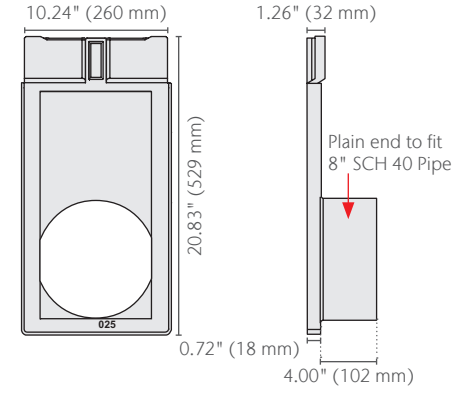
Access Channel

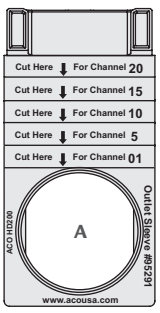


Half Meter Channel



Half Meter Channel





Note: Outlet cap is a two-part sliding unit to account for all depths.

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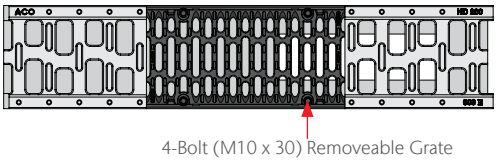
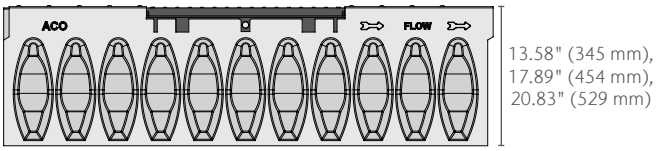
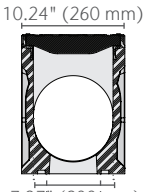
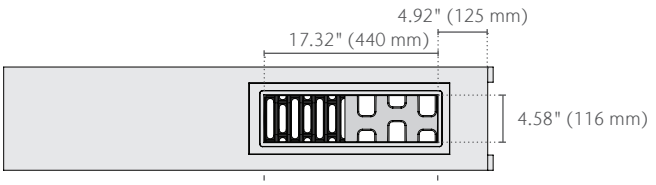
MonoBloc HD200 Spec Sheet

Outlet Channel

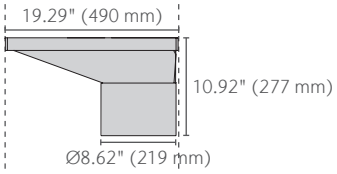


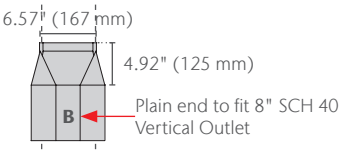




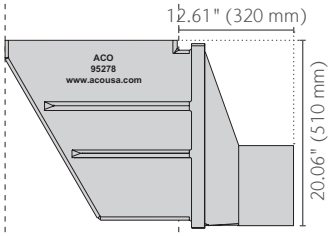


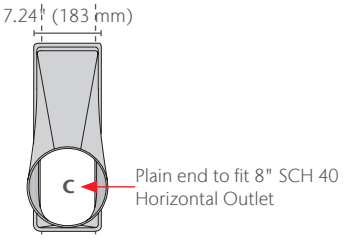
Flume Outlet 8" Vertical



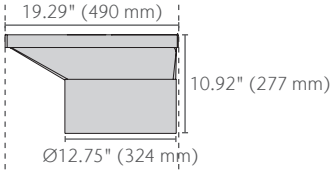


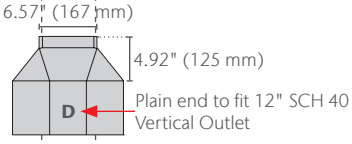
Flume Outlet 8" Horizontal



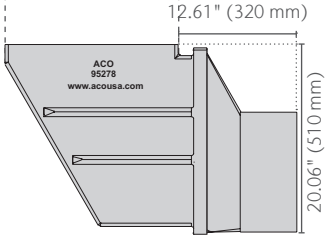


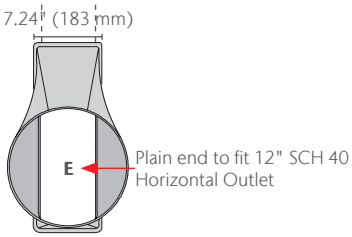
Flume Outlet 12" Vertical





Flume Outlet 12" Horizontal





MonoBloc HD200 Spec Sheet

Outlet	Outlet Type	Outlet Size SCH 40	Outlet Form	Invert Depth in (mm)	Flow Rate GPM	Flow Rate CFS
A	Outlet Cap	8"	HD01	12.52 (318)	**673**	**1.55**
A	Outlet Cap	8"	HD025	19.88 (505)	**892**	**2.05**
B	Vertical Flume	8"	HD01	19.20 (488)	**953**	**2.12**
B	Vertical Flume	8"	HD025	26.45 (672)	**1,119**	**2.49**
C	Horizontal Flume	8"	HD01	33.04 (839)	**1,172**	**2.61**
C	Horizontal Flume	8"	HD025	40.29 (1,023)	**1,311**	**2.92**
D	Vertical Flume	12"	HD01	19.20 (488)	**2,145**	**4.78**
D	Vertical Flume	12"	HD025	26.45 (672)	**2,518**	**5.61**
E	Horizontal Flume	12"	HD01	33.04 (839)	**2,546**	**5.67**
E	Horizontal Flume	12"	HD025	40.29 (1,023)	**2,867**	**6.39**

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

Product	Part No.	Length in (mm)	Invert Depth Female in (mm)	Invert Depth male in (mm)	Weight lbs
HD01 Neutral Channel	**95250**	48.00 (1,220)	12.52 (318)	12.52 (318)	241.0
HD01 Access Channel	**95317**	48.00 (1,220)	12.52 (318)	12.52 (318)	243.0
HD01 Outlet Channel	**95326**	48.00 (1,220)	12.52 (318)	12.52 (318)	233.0
HD1 Sloping Channel	**95253**	48.00 (1,220)	12.52 (318)	12.83 (326)	241.0
HD2 Sloping Channel	**95255**	48.00 (1,220)	12.83 (326)	13.11 (333)	242.7
HD3 Sloping Channel	**95259**	48.00 (1,220)	13.11 (333)	13.43 (341)	244.3
HD4 Sloping Channel	**95254**	48.00 (1,220)	13.43 (341)	13.70 (348)	246.0
HD5 Sloping Channel	**95258**	48.00 (1,220)	13.70 (348)	13.98 (355)	247.6
HD6 Sloping Channel	**95257**	48.00 (1,220)	13.98 (355)	14.29 (363)	249.3
HD7 Sloping Channel	**95252**	48.00 (1,220)	14.29 (363)	14.57 (370)	250.9
HD8 Sloping Channel	**95251**	48.00 (1,220)	14.57 (370)	14.88 (378)	252.6
HD9 Sloping Channel	**95256**	48.00 (1,220)	14.88 (378)	15.16 (385)	254.2
HD10 Sloping Channel	**95263**	48.00 (1,220)	15.16 (385)	15.47 (393)	255.9
HD11 Sloping Channel	**95265**	48.00 (1,220)	15.47 (393)	15.75 (400)	257.5
HD12 Sloping Channel	**95267**	48.00 (1,220)	15.75 (400)	16.06 (408)	259.2
HD13 Sloping Channel	**95262**	48.00 (1,220)	16.06 (408)	16.34 (415)	260.8
HD14 Sloping Channel	**95269**	48.00 (1,220)	16.34 (415)	16.61 (422)	262.5
HD15 Sloping Channel	**95266**	48.00 (1,220)	16.61 (422)	16.93 (430)	264.1
HD015 Neutral Channel	**95261**	48.00 (1,220)	16.93 (430)	16.93 (430)	264.1
HD015 Access Channel	**95328**	48.00 (1,220)	16.93 (430)	16.93 (430)	266.1
HD015 Outlet Channel	**95327**	48.00 (1,220)	16.93 (430)	16.93 (430)	256.1
HD16 Sloping Channel	**95264**	48.00 (1,220)	16.93 (430)	17.20 (437)	265.8
HD17 Sloping Channel	**95260**	48.00 (1,220)	17.20 (437)	17.52 (445)	267.4
HD18 Sloping Channel	**95268**	48.00 (1,220)	17.52 (445)	17.80 (452)	269.1
HD19 Sloping Channel	**95275**	48.00 (1,220)	17.80 (452)	18.11 (460)	270.7
HD20 Sloping Channel	**95272**	48.00 (1,220)	18.11 (460)	18.39 (467)	272.4
HD21 Sloping Channel	**95274**	48.00 (1,220)	18.39 (467)	18.70 (475)	274.0
HD22 Sloping Channel	**95270**	48.00 (1,220)	18.70 (475)	18.98 (482)	275.7
HD23 Sloping Channel	**95277**	48.00 (1,220)	18.98 (482)	19.29 (490)	277.3
HD24 Sloping Channel	**95273**	48.00 (1,220)	19.29 (490)	19.57 (497)	279.0
HD25 Sloping Channel	**95276**	48.00 (1,220)	19.57 (497)	19.88 (505)	280.6
HD025 Neutral Channel	**95271**	48.00 (1,220)	19.88 (505)	19.88 (505)	280.6
HD025 Access Channel	**95329**	48.00 (1,220)	19.88 (505)	19.88 (505)	282.6
HD025 Outlet Channel	**95322**	48.00 (1,220)	19.88 (505)	19.88 (505)	272.6
Flume Outlet PP - 8" Vertical	**95279**	-	-	-	2.4
Flume Outlet PP - 8" Horizontal	**95290**	-	-	-	7.5
Flume Outlet PP - 12" Vertical	**95285**	-	-	-	4.5
Flume Outlet PP - 12" Horizontal	**95287**	-	-	-	9.6
Closing Cap PP	**95292**	-	-	-	1.8
Outlet Cap Kit PP - 8" SCH 40	**95293**	-	-	-	3.5
HD200 Installation Device	**95284**	-	-	-	3.3

Notes:
1. Add nominal 1" (25 mm) to invert depth for overall trench unit depth
2. Closing & outlet caps can be cut down for use with smaller trench units
3. Horizontal flumes are two piece unit
4. Outlet caps are two piece unit

MonoBloc HD200 Spec Sheet

Specification Summary

General

The surface drainage system shall be ACO Infrstructure MonoBloc HD200 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 30% (36 in² per linear ft.) open area for maximum hydraulic efficiency. Access shall be via ductile iron 4-bolt access covers on all access and outlet channels. Access grate bolts are stainless steel M10 x 30.

Installation

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

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 - Compliant with B117 Salt Spray Test
- Dilute acid and alkali-resistant

The nominal clear opening shall be 7.87" (200 mm) with overall width of 10.24" (260 mm). 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 0.75" (19 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 shall be certified to load class E600 as defined by EN 1433 or able to withstand loadings up to 2,321 psi

EN1433 Load Class E
134,885 lbs – 2,785 psi

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