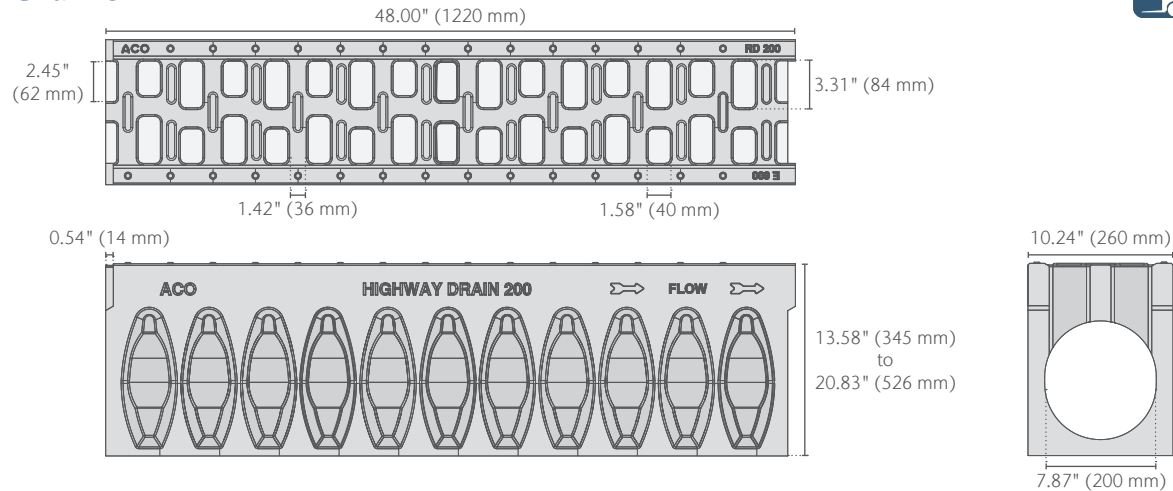


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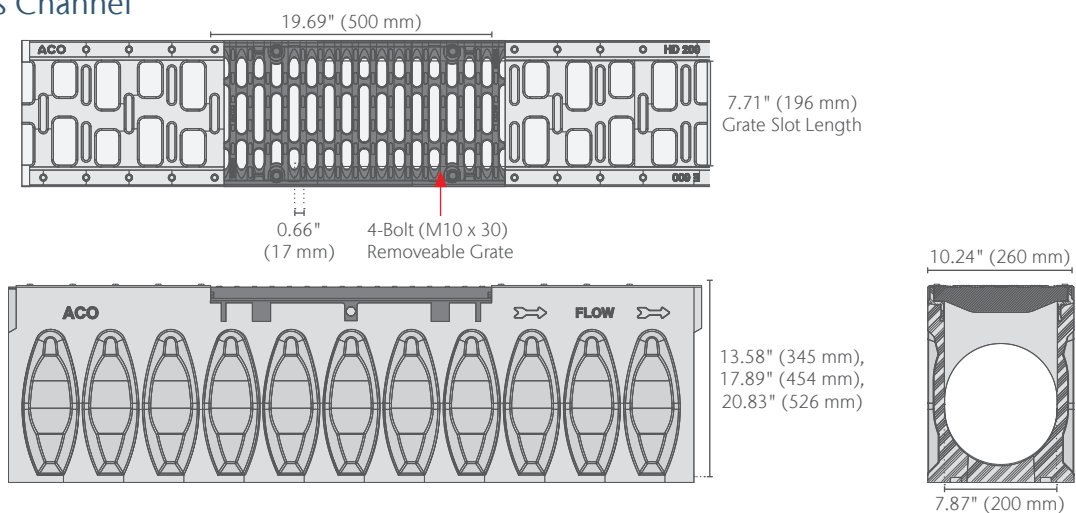
MonoBloc HD 200 Spec Sheet



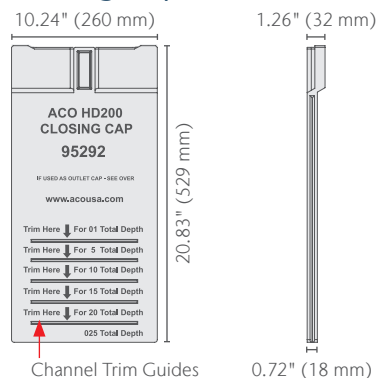
Channel



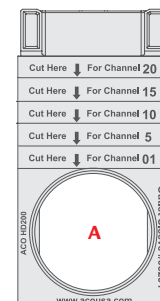
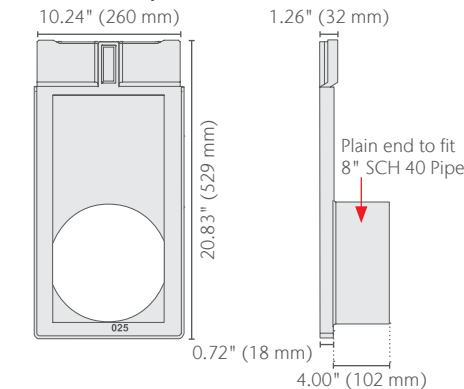
Access Channel



Closing Cap



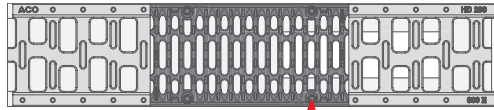
Outlet Cap



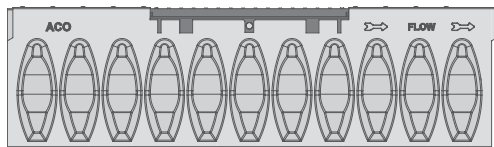
Note: Outlet cap is a two-part sliding unit to account for all depths.

MonoBloc HD 200 Spec Sheet

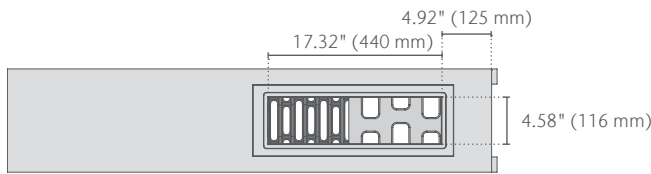
Outlet Channel



4-Bolt (M10 x 30) Removeable Grate



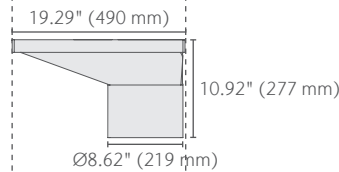
13.58" (345 mm),
17.89" (454 mm),
20.83" (529 mm)



4.92" (125 mm)
17.32" (440 mm)

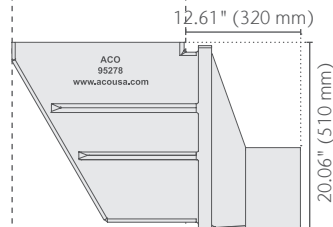
4.58" (116 mm)

Flume Outlet 8" Vertical



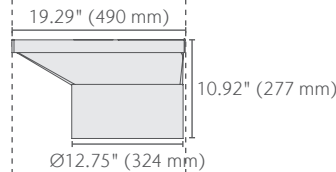
19.29" (490 mm)
10.92" (277 mm)
Ø8.62" (219 mm)

Flume Outlet 8" Horizontal



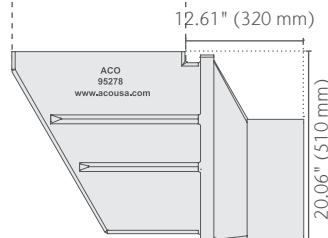
12.61" (320 mm)
20.06" (510 mm)

Flume Outlet 12" Vertical

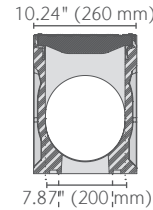


19.29" (490 mm)
10.92" (277 mm)
Ø12.75" (324 mm)

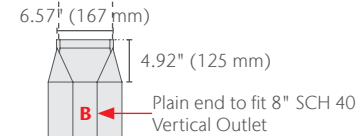
Flume Outlet 12" Horizontal



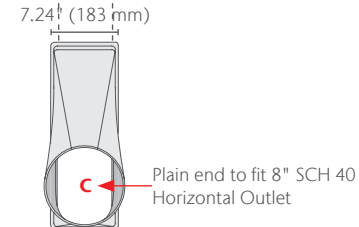
12.61" (320 mm)
20.06" (510 mm)



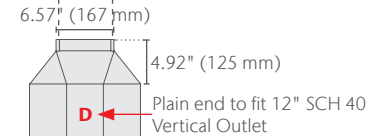
10.24" (260 mm)
7.87" (200 mm)



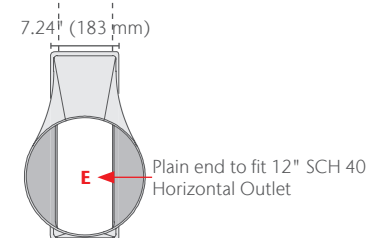
6.57" (167 mm)
4.92" (125 mm)
Plain end to fit 8" SCH 40 Vertical Outlet



7.24" (183 mm)
Plain end to fit 8" SCH 40 Horizontal Outlet



6.57" (167 mm)
4.92" (125 mm)
Plain end to fit 12" SCH 40 Vertical Outlet



7.24" (183 mm)
Plain end to fit 12" SCH 40 Horizontal Outlet

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MonoBloc HD 200 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.

MonoBloc HD 200 Parts	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
HD 200 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 HD 200 Spec Sheet



Specification Summary

General

The surface drainage system shall be ACO Infrastructure MonoBloc HD 200 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 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 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 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

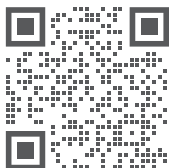


FAA Airside
200K lb Proof Load

ACO, Inc.

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