



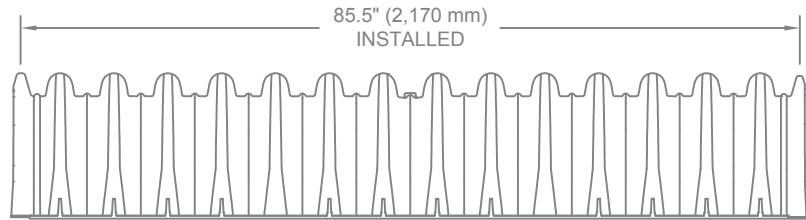
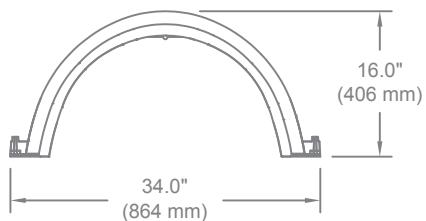
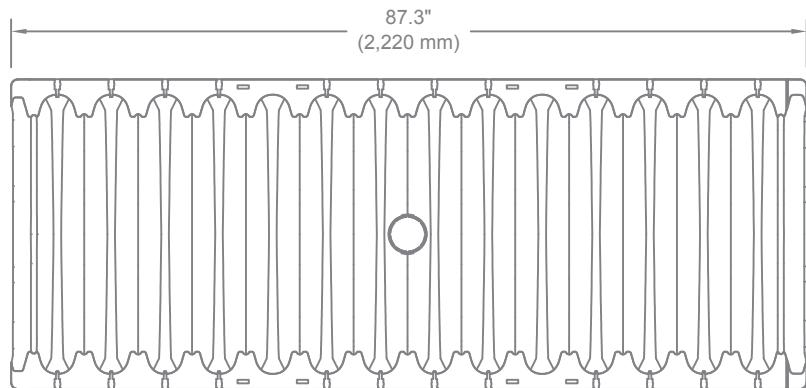
HydroStor® HS31

Prinsco's HS31 HydroStor® stormwater chamber delivers high-performance, sustainable underground water management for applications such as parking lots, roadways and commercial developments. Designed for versatility and efficiency, the HS31 supports responsible land management and groundwater recharge while meeting a wide range of project requirements and budgets.



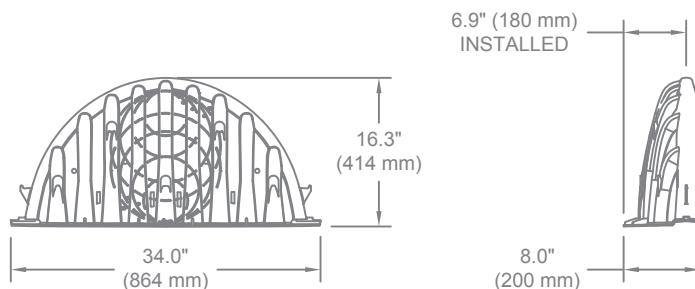
Chamber Specifications

Chamber Size (L x W x H)	87.3" x 34.0" x 16.0" (2,220 x 864 x 406 mm)
Installed Length	85.5" (2,170 mm)
Chamber Storage	15.2 ft ³ (0.43 m ³)
Minimum Installed Storage	29.6 ft ³ (0.84 m ³)
Weight	34 lbs (15 kg)
Chambers/Pallet	90
Approx. Weight/Pallet	3,380 lbs (1,530 kg)

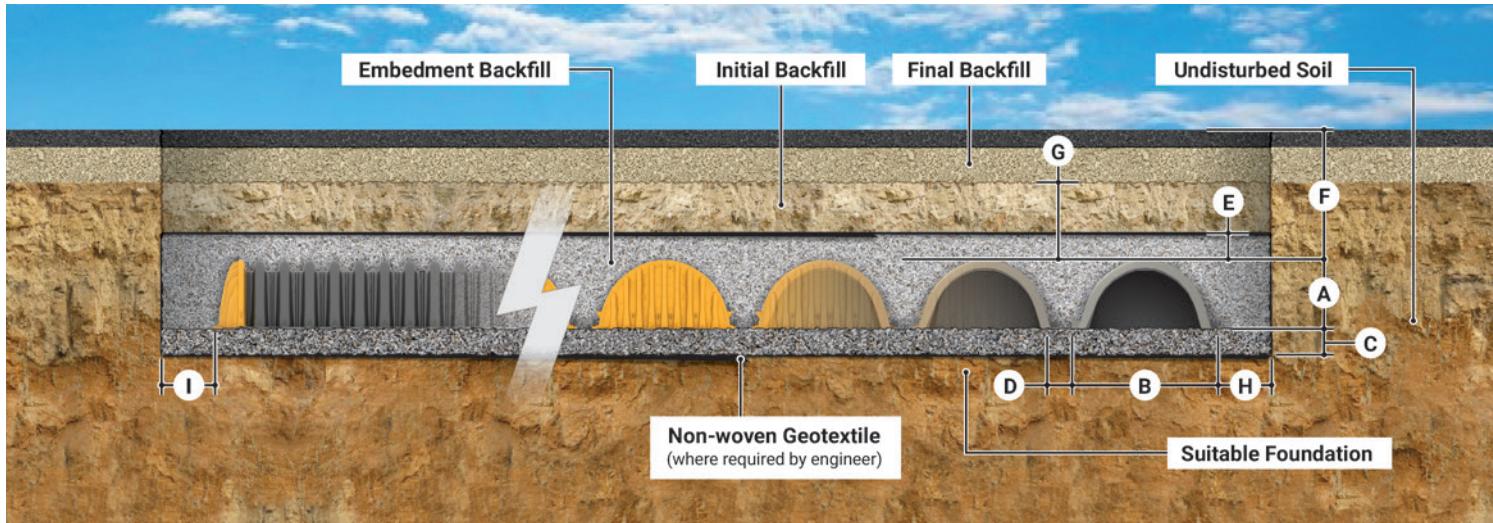


End Cap Specifications

Chamber Size (L x W x H)	8.0" x 34.0" x 16.3" (200 x 864 x 414 mm)
Installed Length	6.9" (180 mm)
End Cap Storage	0.62 ft ³ (0.02 m ³)
Minimum Installed Storage	4.89 ft ³ (0.14 m ³)
Weight	3.8 lbs (1.7 kg)
End Caps/Pallet	60



HydroStor® chambers and end caps are engineered to meet or exceed **ASTM F2418** product standards and **ASTM F2787** design standards, as well as **AASHTO H20** live-load and **HL-93** design-load requirements.



Height (A)	16" (406 mm)
Width (B)	34" (864 mm)
Min. Foundation Stone (C)	6" (150 mm)
Min. Chamber Spacing (D)	3" (75 mm)
Min. Backfill above Chamber (E)	6" (150 mm)

Max. Burial Depth (F)	8' (2.44 m)
Min. Cover (G)	16" (406 mm)
Min. Backfill at Edge of System (H)	12" (300 mm)
Min. Backfill at End of System (I)	12" (300 mm)

Chamber and Stone Storage Volumes

Stone Foundation Depths	HS31 Chamber ft ³ (m ³)
Bare Unit	15.14 (0.43)
6 in. (150 mm)	29.56 (0.84)
9 in. (225 mm)	31.8 (0.9)
12 in. (300 mm)	34.0 (0.96)
15 in. (375 mm)	36.2 (1.03)
18 in. (450 mm)	38.4 (1.09)

Volume of Excavation Required per Chamber

Stone Foundation Depths	HS31 Chamber yd ³ (m ³)
6 in. (150 mm)	2.57 (1.97)
12 in. (300 mm)	2.98 (2.28)
18 in. (450 mm)	3.39 (2.59)

Assumes 3 in. (75 mm) of separation between chamber rows, 12 in. (300 mm) of perimeter in front of end caps and 16 in. (406 mm) of cover minimum. If the depth of cover exceeds 18 in. (450 mm), the volume should be increased 0.81cy (0.62 m³) per foot (300 mm) of depth.

Stone Required per Chamber

Stone Foundation Depths	HS31 Chamber	
	yd ³ /US tons	m ³ /metric tons
6 in. (150 mm)	1.33/1.8	1.02/1.63
9 in. (225 mm)	1.54/2.08	1.18/1.89
12 in. (300 mm)	1.74/2.35	1.33/2.13
15 in. (375 mm)	1.94/2.62	1.49/2.38
18 in. (450 mm)	2.15/2.9	1.64/2.63

More about HydroStor®

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Installation Documents
Specifications
Technical Notes



the
Prinsco
difference
service led by values

Prinsco products are fully supported by our engineering team and are designed, manufactured and tested to meet/exceed the high performance needs of the construction market. Prinsco's engineering, quality control and production teams are committed to a continuous process of innovation and product development. We are focused on current and future market needs centered around environmental sustainability, water quality, stormwater management and performance advancement.