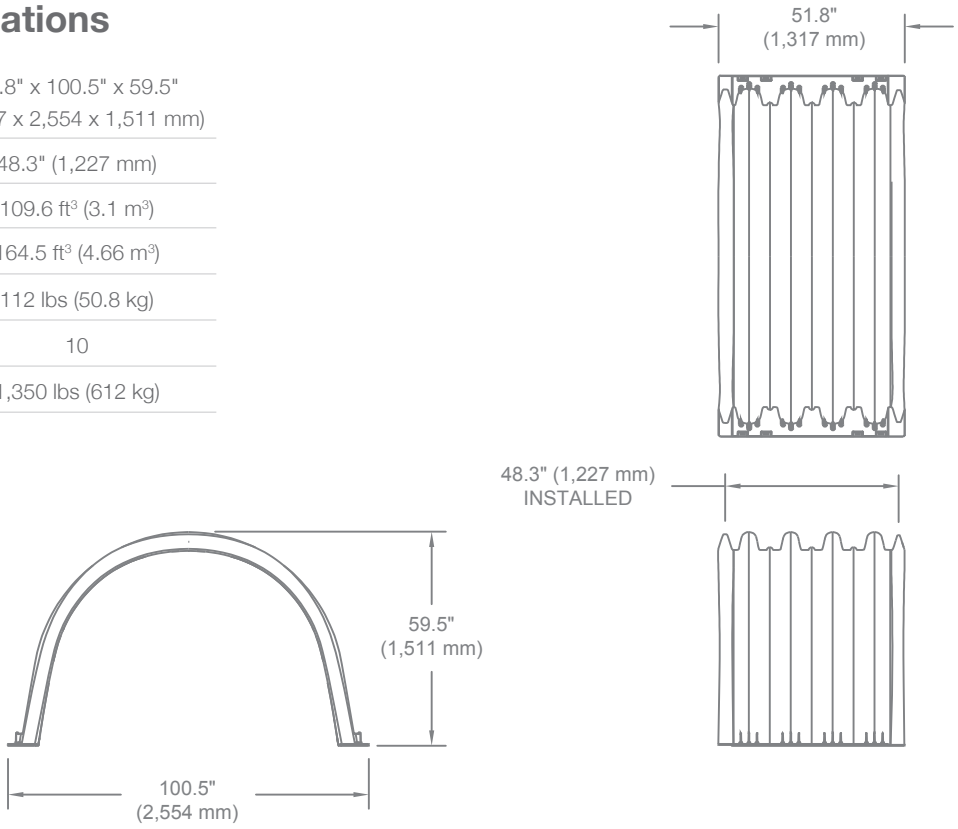
HydroStor® | HS290

Prinsco's HS290 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 HS290 supports responsible land management and groundwater recharge while meeting a wide range of project requirements and budgets.

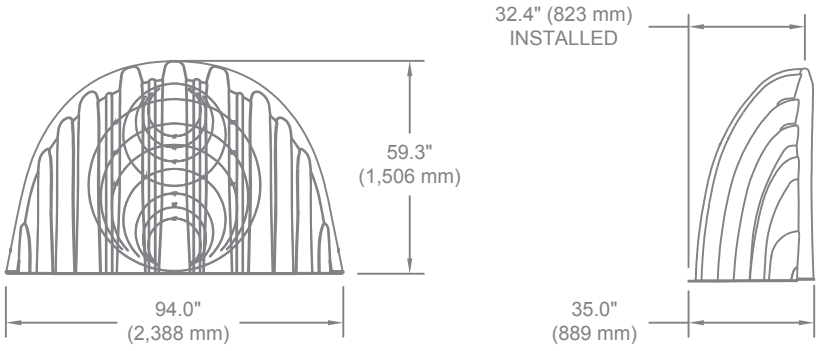
Chamber Specifications

Chamber Size (L x W x H)	51.8" x 100.5" x 59.5" (1,317 x 2,554 x 1,511 mm)
Installed Length	48.3" (1,227 mm)
Chamber Storage	109.6 ft³ (3.1 m³)
Minimum Installed Storage	164.5 ft³ (4.66 m³)
Weight	112 lbs (50.8 kg)
Chambers/Pallet	10
Approx. Weight/Pallet	1,350 lbs (612 kg)

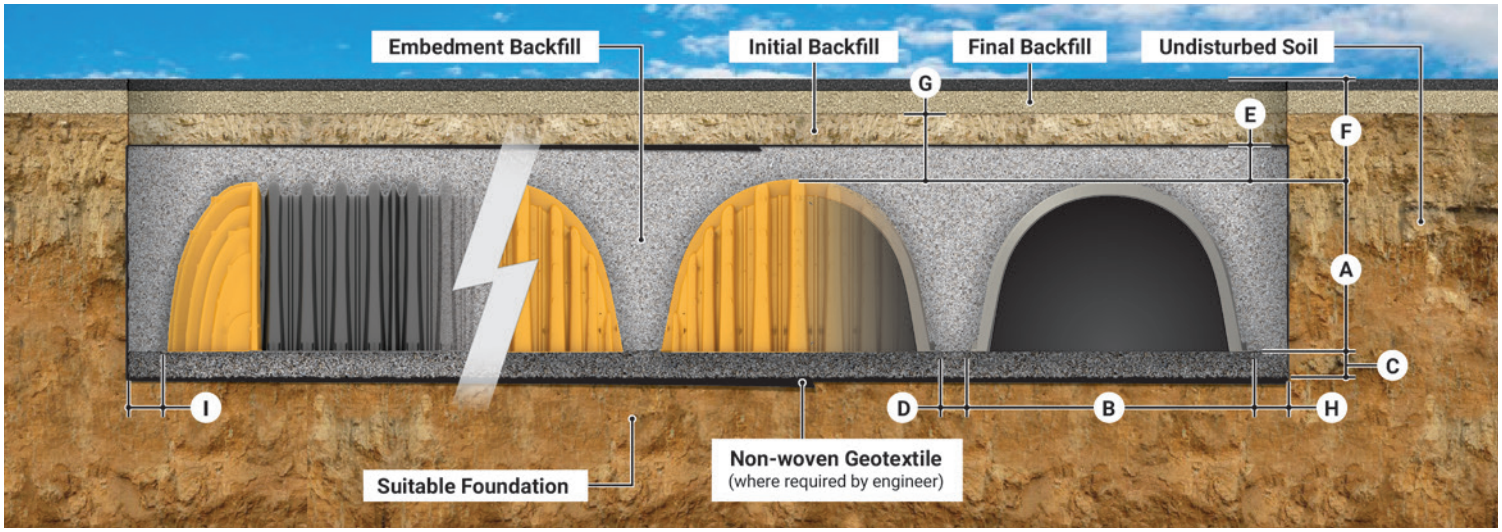


End Cap Specifications

Chamber Size (L x W x H)	35.0" x 94.0" x 59.3" (889 x 2,388 x 1,506 mm)
Installed Length	32.4" (823 mm)
End Cap Storage	39.6 ft³ (1.12 m³)
Minimum Installed Storage	114.46 ft³ (3.1 m³)
Weight	79.9 lbs (36.24 kg)
End Caps/Pallet	10



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)	59.5" (1,511 mm)
Width (B)	100.5" (2,554 mm)
Min. Foundation Stone (C)	9" (230 mm)
Min. Chamber Spacing (D)	8.5" (220 mm)
Min. Backfill above Chamber (E)	12" (300 mm)
Max. Burial Depth (F)	8' (2.44 m)
Min. Cover (G)	24" (600 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	HS290 Chamber ft³ (m³)	HS290 End Cap ft³ (m³)
Bare Unit	109.67 (3.11)	39.6 (1.12)
9 in. (225 mm)	163.9 (4.64)	109.51 (3.1)
12 in. (300 mm)	167.5 (4.74)	112.9 (3.2)
15 in. (375 mm)	171.1 (4.85)	116.2 (3.29)
18 in. (450 mm)	174.7 (4.95)	119.5 (3.38)

Stone Required per Chamber and End Cap

Stone Foundation Depths	HS290 Chamber		HS290 End Cap	
	yd³/US tons	m³/metric tons	yd³/US tons	m³/metric tons
9 in. (225 mm)	4.98/6.72	3.81/6.1	6.85/9.24	5.23/8.38
12 in. (300 mm)	5.32/7.18	4.07/6.51	7.16/9.66	5.47/8.76
15 in. (375 mm)	5.65/7.63	4.32/6.92	7.46/10.08	5.71/9.14
18 in. (450 mm)	5.99/8.09	4.58/7.34	7.77/10.5	5.94/9.53

Volume of Excavation Required per Chamber

Stone Foundation Depths	HS290 Chamber yd³ (m³)	HS290 End Cap yd³ (m³)
9 in. (225 mm)	10.39 (7.94)	9.55 (7.3)
12 in. (300 mm)	10.73 (8.2)	9.86 (7.54)
15 in. (375 mm)	11.06 (8.46)	10.17 (7.78)
18 in. (450 mm)	11.4 (8.72)	10.48 (8.01)

Assumes 8.5 in. (200 mm) of separation between chamber rows, 6 in. (150 mm) of perimeter in front of end caps and 24 in. (600 mm) of cover minimum. If the depth of cover exceeds 24 in. (600 mm), the volume should be increased 1.35cy (1.04 m³) per chamber and 1.24cy (0.95 m³) per end cap for each additional foot (300 mm) of depth.

More about HydroStor®

Installation Videos
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.