



SC-310 CHAMBER

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. StormTech chambers can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.

9.9"

(251 mm)

STORMTECH SC-310 CHAMBER

(not to scale)

Nominal Chamber Specifications

Size (L x W x H) 85.4" x 34.0" x 16.0" 2,170 mm x 864 mm x 406 mm

Chamber Storage 14.7 ft³ (0.42 m³)

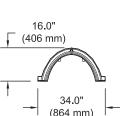
Min. Installed Storage* 31.0 ft³ (0.88 m³)

Weight 37.0 lbs (16.8 kg)

Shipping 41 chambers/pallet 108 end caps/pallet 18 pallets/truck

*Assumes 6" (150 mm) stone above and below chambers and 40% stone porosity.

> EMBEDMENT STONE SHALL BE A CLEAN, CRUSHED AND ANGULAR STONE WITH AN AASHTO M43 DESIGNATION BETWEEN #3 AND #57 CHAMBERS SHALL MEET THE REQUIREMENTS FOR ASTM F2418 POLYPROPLENE (PP) CHAMBERS

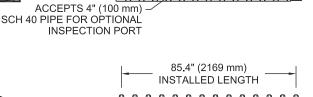


15.6"

(396 mm)

12" (300 mm)

DIAMETER MAX.



90.7" (2304 mm) ACTUAL LENGTH



GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES, COMPACT IN 6" (150 mm) MAX LIFTS TO 95% PROCTOR DENSITY. SEE THE TABLE OF ACCEPTABLE FILL MATERIALS. CHAMBERS SHALL BE BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". OR ASTM F922 POLYETHYLENE (PE) CHAMBERS ADS GEOSYTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED PAVEMENT LAYER (DESIGNED ANGULAR EMBEDMENT STONE BY SITE DESIGN ENGINEER) ***** 6" (150 mm) MIN 18' (2.4 m) (450 mm) MIN* MAX PERIMETER STONE 16 (405 mm) EXCAVATION WALL (CAN BE SLOPED OR VERTICAL) DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 6" (150 mm) MIN 12" (300 mm) MIN 34" (865 mm) 12" (300 mm) TYP (150 mm) MIN END CAP SITE DESIGN ENGINEER IS RESPONSIBLE FOR

THE ENSURING THE REQUIRED BEARING CAPACITY OF SUBGRADE SOILS

*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm).





SC-310 CUMULATIVE STORAGE VOLUMES PER CHAMBER

Assumes 40% Stone Porosity. Calculations are Based Upon a 6" (150 mm) Stone Base Under Chambers.

Depth of Water in System Inches (mm)	Cumulative Chamber Storage ft ³ (m ³)		Total System Cumulative Storage ft³ (m³)	
28 (711)	14.70 (0.416)	31.00 (0.878)	
27 (686)	14.70 (0.416)	30.21 (0.855)	
26 (680)	Stone 14.70 (0.416)	29.42 (0.833)	
25 (610)	Cover 14.70 (0.416)	28.63 (0.811)	
24 (609)	14.70 (0.416)	27.84 (0.788)	
23 (584)	14.70 (0.416)	27.05 (0.766)	
22 (559)	14.70 (0.416)	26.26 (0.748)	
21 (533)	14.64 (0.415)	25.43 (0.720)	
20 (508)	14.49 (0.410)	24.54 (0.695)	
19 (483)	14.22 (0).403)	23.58 (0.668)	
18 (457)	13.68 (0).387)	22.47 (0.636)	
17 (432)	12.99 (0).368)	21.25 (0.602)	
16 (406)	12.17 (0).345)	19.97 (0.566)	
15 (381)	11.25 ().319)	18.62 (0.528)	
14 (356)	10.23 (0).290)	17.22 (0.488)	
13 (330)	9.15 (0).260)	15.78 (0.447)	
12 (305)	7.99 (0).227)	14.29 (0.425)	
11 (279)	6.78 (0.192)	12.77 (0.362)	
10 (254)	5.51 (D.156)	11.22 (0.318)	
9 (229)	4.19 (0.119)	9.64 (0.278)	
8 (203)	2.83 (0	0.081)	8.03 (0.227)	
7 (178)	1.43 (0	0.041)	6.40 (0.181)	
6 (152)	A	0	4.74 (0.134)	
5 (127)		0	3.95 (0.112)	
4(102)	— Stone Foundation0 0		3.16 (0.090)	
3 (76)			2.37 (0.067)	
2 (51)		0	1.58 (0.046)	
1 (25)	*	0	0.79 (0.022)	

Note: Add 0.79 ft $^{\!3}$ (0.022 m $^{\!3}$) of storage for each additional inch. (25 mm) of stone foundation.

STORAGE VOLUME PER CHAMBER FT³ (M³)

	Bare Chamber	Chamber and Stone Foundation Depth in. (mm)			
Storage ft ³ (m ³)	ft ³ (m ³)	6 (150)	12 (300)	18 (450)	
StormTech SC-310	14.7 (0.4)	31.0 (0.9)	35.7 (1.0)	40.4 (1.1)	

Note: Assumes 6" (150 mm) of stone above chambers, 6" (150 mm) row spacing and 40% stone porosity.

AMOUNT OF STONE PER CHAMBER

	Stone Foundation Depth			
ENGLISH TONS (yds ³)	6"	12"	18"	
StormTech SC-310	2.1 (1.5 yd³)	2.7 (1.9 yd³)	3.4 (2.4 yd ³)	
METRIC KILOGRAMS (m ³)	150 mm	300 mm	450 mm	
StormTech SC-310	1830 (1.1 m³)	2490 (1.5 m ³)	2990 (1.8 m ³)	

Note: Assumes 6" (150 mm) of stone above, and between chambers.

VOLUME EXCAVATION PER CHAMBER YD³ (M³)

	Stone Foundation Depth				
	6" (150 mm)	12" (300 mm)	18" (450 mm)		
StormTech SC-310	2.9 (2.2)	3.4 (2.6)	3.8 (2.9)		

Note: Assumes 6" (150 mm) of row separation and 18" (450 mm) of cover. The volume of excavation will vary as the depth of the cover increases.



Working on a project? Visit us at www.stormtech.com and utilize the StormTech Design Tool

For more information on the StormTech SC-310 Chamber and other ADS products, please contact our Customer Service Representatives at 1-800-821-6710

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