StormTech[®] SC-740 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.

Nominal Chamber Specifications (not to scale)



Size (L x W x H) 90.7" (2304 mm) 85.4" x 51" x 30" ACTUAL LENGTH 2,170 mm x 1,295 mm x 762 mm 24" (600 mm) DIAMETER MAX. **Chamber Storage** 45.9 ft³ (1.30 m³) 29.3" (744 mm) Min. Installed Storage* 74.9 ft³ (2.12 m³) 12.2" (310 mm) 45.9" (1166 mm) Weight 85.4" (2169 mm) 74.0 lbs (33.6 kg) **INSTALLED LENGTH** Shipping 30.0" (762 mm) 30 chambers/pallet 60 end caps/pallet 51 0' 12 pallets/truck (1295 mm) *Assumes 6" (150 mm) stone above. below and between chambers and 40% stone porosity. EMBEDMENT STONE SHALL BE A CLEAN, CRUSHED AND ANGULAR STONE WITH AN AASHTO M43 DESIGNATION BETWEEN #3 AND #57 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 MEET THE REQUIREMENTS FOR ASTM F2418 POLYPROPLENE (PP) CHAMBERS OR ASTM F2922 POLYETHYLENE (PE) CHAMBERS CHAMBERS SHALL BE BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". ADS GEOSYTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED ANGULAR EMBEDMENT STONE PAVEMENT LAYER (DESIGNED BY SITE DESIGN ENGINEER (2.4 m) MAX (450 m 6" (150 m PERIMETER STONE 30" (760 mm) EXCAVATION WALI (CAN BE SLOPEI OR VERTICAL DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 6" (150 mm) MIN SC-740 END CA 12" (300 mm) MIN SITE DESIGN ENGINEER IS RESPONSIBLE FOR THE ENSURING THE REQUIRED BEARING 51" (1295 mm) 12" (300 mm) TYP (150 mm) MIN 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)



StormTech SC-740 Specifications

Cumulative Storage Volumes Per Chamber

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

42 (1067) 45.90 (1.300) 74.90 (2.121) 41 (1041) 45.90 (1.300) 73.77 (2.089) 40 (1016) 45.90 (1.300) 72.64 (2.057) 39 (991) Cover 45.90 (1.300) 71.52 (2.025) 38 (965) 45.90 (1.300) 70.39 (1.993) 37 (940) 45.90 (1.300) 69.26 (1.961)
41 (1041) 45.90 (1.300) 73.77 (2.089) 40 (1016) 45.90 (1.300) 72.64 (2.057) 39 (991) Stone Cover 45.90 (1.300) 71.52 (2.025) 38 (965) 45.90 (1.300) 70.39 (1.993)
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37 (940) 45.90 (1.300) 69.26 (1.961)
36 (914) 45.90 (1.300) 68.14 (1.929)
35 (889) 45.85 (1.298) 66.98 (1.897)
34 (864) 45.69 (1.294) 65.75 (1.862)
33 (838) 45.41 (1.286) 64.46 (1.825)
32 (813) 44.81 (1.269) 62.97 (1.783)
31 (787) 44.01 (1.246) 61.36 (1.737)
30 (762) 43.06 (1.219) 59.66 (1.689)
29 (737) 41.98 (1.189) 57.89 (1.639)
28 (711) 40.80 (1.155) 56.05 (1.587)
27 (686) 39.54 (1.120) 54.17 (1.534)
26 (660) 38.18 (1.081) 52.23 (1.479)
25 (635) 36.74 (1.040) 50.23 (1.422)
24 (610) 35.22 (0.977) 48.19 (1.365)
23 (584) 33.64 (0.953) 46.11 (1.306)
22 (559) 31.99 (0.906) 44.00 (1.246)
21 (533) 30.29 (0.858) 1.85 (1.185)
20 (508) 28.54 (0.808) 39.67 (1.123)
19 (483) 26.74 (0.757) 37.47 (1.061)
18 (457) 24.89 (0.705) 35.23 (0.997)
17 (432) 23.00 (0.651) 32.96 (0.939)
16 (406) 21.06 (0.596) 30.68 (0.869)
15 (381) 19.09 (0.541) 28.36 (0.803)
14 (356) 17.08 (0.484) 26.03 (0.737)
13 (330) 15.04 (0.426) 23.68 (0.670)
12 (305) 12.97 (0.367) 21.31 (0.608)
11 (279) 10.87 (0.309) 18.92 (0.535)
10 (254) 8.74 (0.247) 16.51 (0.468)
9 (229) 6.58 (0.186) 14.09 (0.399)
8 (203) 4.41 (0.125) 11.66 (0.330)
7 (178) 2.21 (0.063) 9.21 (0.264)
6 (152) 0 (0) 6.76 (0.191)
5 (127) 0 (0) 5.63 (0.160)
4 (102) Stone 0 (0) 4.51 (0.128)
3 (76) Foundation 0 (0) 3.38 (0.096)
2 (51) 0 (0) 2.25 (0.064)
1 (25) 🕴 0 (0) 1.13 (0.032)

Note: Add 1.13 ft³ (0.032 m³) of storage for each additional inch (25 mm) of stone foundation.

ADS StormTech products, manufactured in accordance with ASTM F2418 or ASTMF2922, comply with all requirements in the Build America, Buy America (BABA) Act.

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Storage Volume Per Chamber ft³ (m³)

	Bare Chamber Storage ft ³ (m ³)	Chamber and Stone Foundation Depth in. (mm)		
		6 (150)	12 (300)	18 (450)

 SC-740 Chamber
 45.9 (1.3)
 74.9 (2.1)
 81.7 (2.3)
 88.4 (2.5)

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

Amount of Stone Per Chamber

English Tons (yds³)	Stone Foundation Depth			
Eligiish tons (yus-)	6″	12″	16″	
SC-740	3.8 (2.8)	4.6 (3.3)	5.5 (3.9)	
Metric Kilograms (m³)	150 mm	300 mm	450 mm	
SC-740	3,450 (2.1)	4,170 (2.5)	4,490 (3.0)	

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

Volume Excavation Per Chamber yd³ (m³)

Stone Foundation Depth			
6 (150)	12 (300)	18 (450)	
5.5 (4.2)	6.2 (4.7)	6.8 (5.2)	
	6 (150)	6 (150) 12 (300)	

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

