

StormTech 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 commercial and municipal applications.



StormTech SC-310 Chamber (not to scale)

Nominal Chamber Specifications

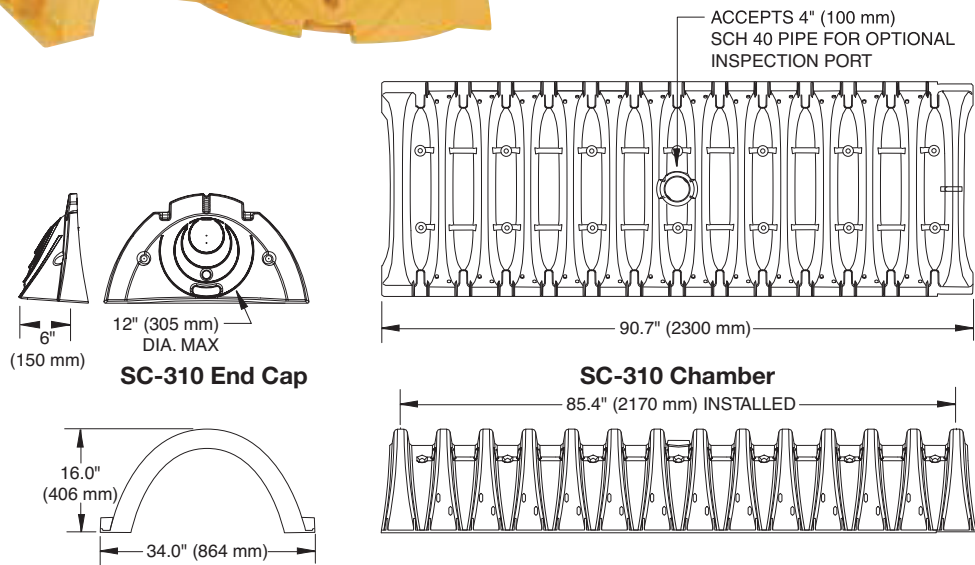
Size (L x W x H)
85.4" x 34.0" x 16.0"
(2170 x 864 x 406 mm)

Chamber Storage
14.7 ft³ (0.42 m³)

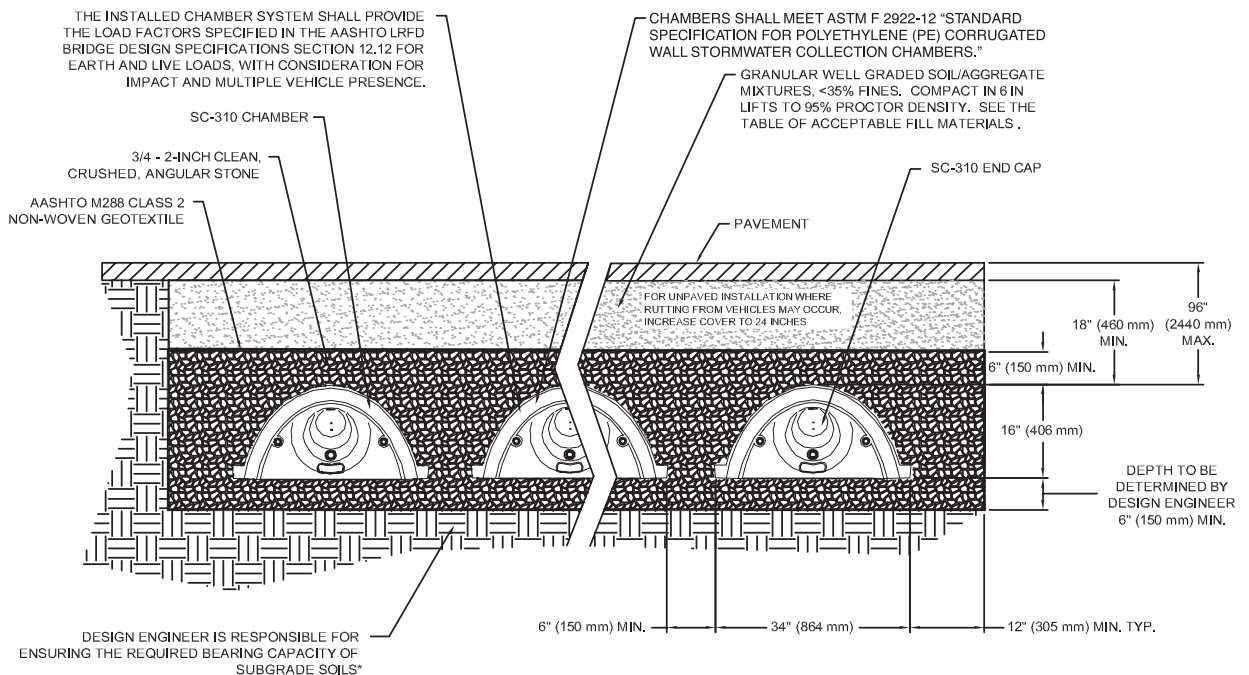
Minimum Installed Storage*
31.0 ft³ (0.88 m³)

Weight
37.0 lbs (16.8 kg)

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



Typical Cross Section Detail (not to scale)



THIS CROSS SECTION DETAILS THE REQUIREMENTS NECESSARY TO SATISFY THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12 FOR EARTH AND LIVE LOADS USING STORMTECH CHAMBERS

SC-310 Cumulative Storage Volumes Per Chamber

Assumes 40% Stone Porosity. Calculations are Based Upon a 6" (152 mm) Stone Base Under the Chambers.

| Depth of Water in System Inches (mm) | Cumulative Chamber Storage ft ³ (m ³) | Total System Cumulative Storage ft ³ (m ³) |
|--------------------------------------|--|---|
| 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 (0.319) | 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 (0.156) | 11.22 (0.318) |
| 9 (229) | 4.19 (0.119) | 9.64 (0.278) |
| 8 (203) | 2.83 (0.081) | 8.03 (0.227) |
| 7 (178) | 1.43 (0.041) | 6.40 (0.181) |
| 6 (152) | ↑ 0 | 4.74 (0.134) |
| 5 (127) | 0 | 3.95 (0.112) |
| 4 (102) | Stone Foundation 0 | 3.16 (0.090) |
| 3 (76) | 0 | 2.37 (0.067) |
| 2 (51) | ↓ 0 | 1.58 (0.046) |
| 1 (25) | ↓ 0 | 0.79 (0.022) |

Note: Add 0.79 cu. ft. (0.022 m³) of storage for each additional inch (25 mm) of stone foundation.

Storage Volume Per Chamber

| | Bare Chamber Storage ft ³ (m ³) | Chamber and Stone Foundation Depth in. (mm) | | |
|-------------------------|--|---|------------|------------|
| | | 6 (150) | 12 (305) | 18 (460) |
| StormTech SC-310 | 14.7 (0.4) | 31.0 (0.9) | 35.7 (1.0) | 40.4 (1.1) |

Note: Storage volumes are in cubic feet per chamber. Assumes 40% porosity for the stone plus the chamber volume.

Amount of Stone Per Chamber

| ENGLISH TONS (CUBIC YARDS) | Stone Foundation Depth | | |
|--|----------------------------|----------------------------|----------------------------|
| | 6" | 12" | 18" |
| StormTech SC-310 | 2.1 (1.5 yd ³) | 2.7 (1.9 yd ³) | 3.4 (2.4 yd ³) |
| METRIC KILOGRAMS (METER ³) | 150 mm | 305 mm | 460 mm |
| StormTech SC-310 | 1830 (1.1 m ³) | 2490 (1.5 m ³) | 2990 (1.8 m ³) |

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

Volume of Excavation Per Chamber

| | Stone Foundation Depth | | |
|-------------------------|------------------------|--------------|--------------|
| | 6" (150 mm) | 12" (305 mm) | 18" (460 mm) |
| StormTech SC-310 | 2.9 (2.2) | 3.4 (2.6) | 3.8 (2.9) |

Note: Volumes are in cubic yards (cubic meters) per chamber. Assumes 6" (150 mm) of separation between chamber rows and 18" (460 mm) of cover. The volume of excavation will vary as the depth of the cover increases.

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