StormTech Chambers For Residential Downspout Drainage Systems

StormTech®
Detention • Retention • Water Quality
Subsurface Stormwater Management℠

Solve Your Puddle Problems Today!

Keep your yard free from puddles and ponding during heavy rain storms with StormTech chambers. The chambers can store water from roofs or other problem areas underground, eliminating water logged or slippery frozen water conditions. Constructed of plastic, StormTech chambers are lightweight and inherently resistant to chemicals typically found in stormwater runoff.
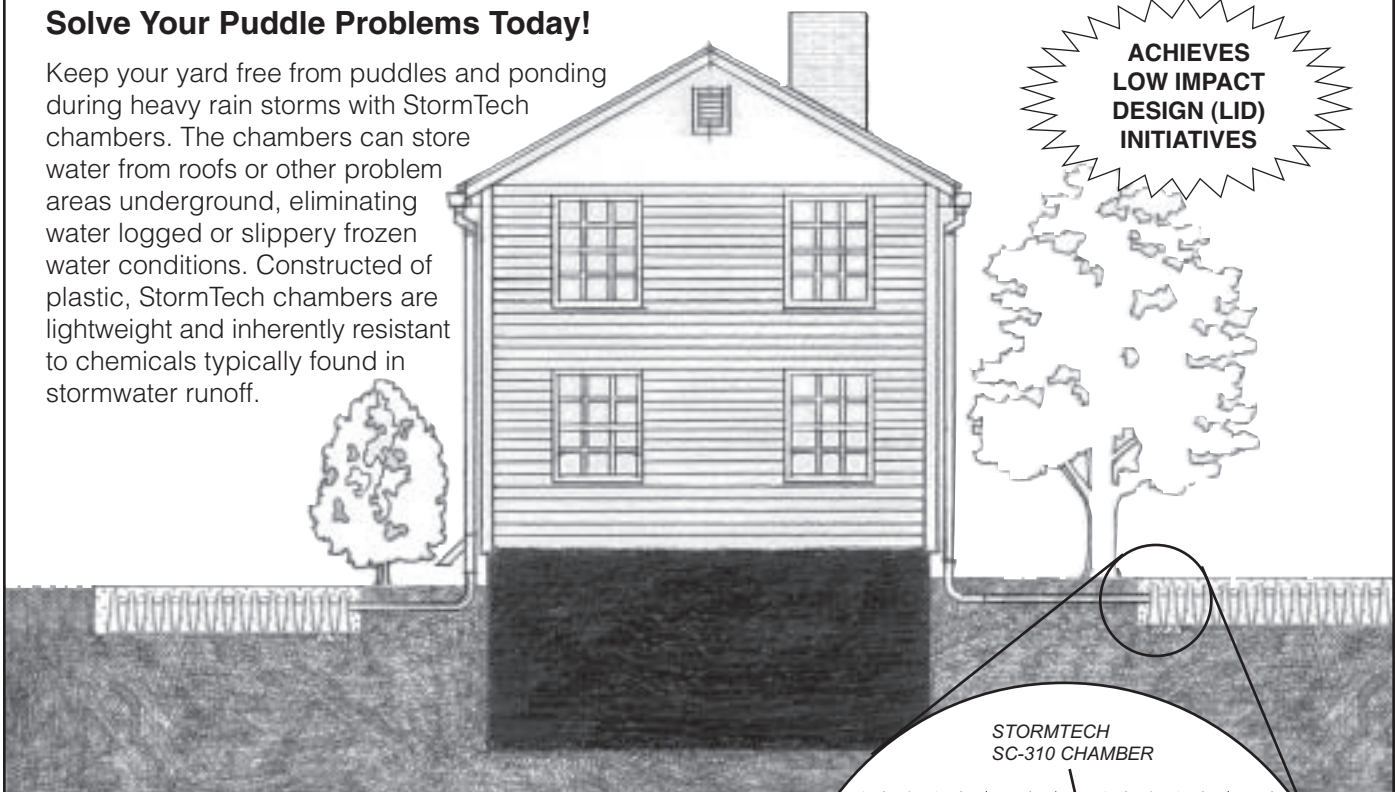
ACHIEVES LOW IMPACT DESIGN (LID) INITIATIVES

STORMTECH SC-310 CHAMBER

END CAP

*12" MIN
** MAX

INLET PIPE

STONE OR FABRIC

*For residential non-traffic trenches only

The StormTech Downspout Drainage System.

StormTech offers multiple chamber sizes to manage water from downspouts or ponded areas. Residential gutters gather rainwater and deliver it to the chambers via the downspout or other inlet pipe. To prevent soil erosion, either a small amount of stone or filter fabric along the bottom of the trench is needed.
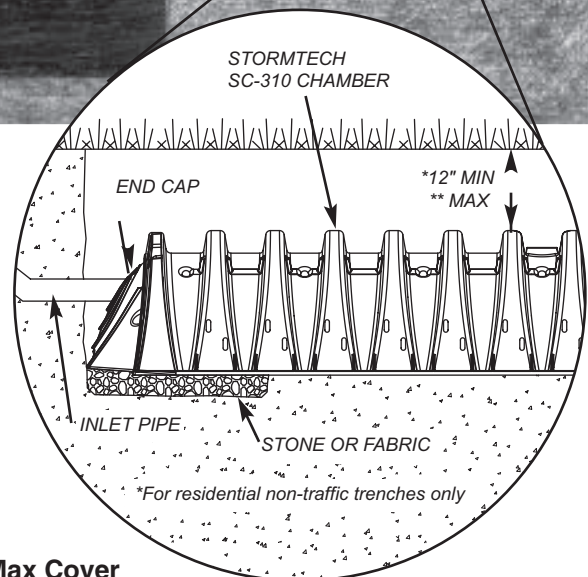
StormTech Drainage Benefits.

Installation. StormTech chambers can easily be hand-carried into position and installed without the use of heavy construction equipment. StormTech chambers require an excavated area, piping material and filter fabric.

Aesthetics. Runoff can be diverted away and stored safely and neatly underground. No more ponding water, frozen walkways or soil erosion contributing to the negative aesthetics of your yard.

Environmental. The chambers help recharge groundwater resources by replicating natures own process of infiltration.

**Max Cover
SC-310/SC-740 - 8ft (2.44m)
DC-780 - 12ft (3.66m)
MC-3500 - 8.0ft (2.44m)
MC-4500 - 7.0ft (2.13m)

Safety. Because the chambers are underground, they eliminate erosion ditches and potential hazards caused by conventional roof drains and ice build-up in the winter.

Versatility. StormTech chambers are ideal for storing water from residential rooftops, driveways, tennis courts or ponded areas in the yard.

The StormTech Residential Downspout Drainage System Puts Rainwater in its Place – Underground

Storage. Primary considerations when selecting between chambers are the depth of the groundwater, available area for subsurface storage and site conditions. The SC-310 chamber offers a low-profile system, while the SC-740, DC-780, MC-3500 and MC-4500 maximize storage volumes in a smaller footprint.

	SC-310 Chamber	SC-740 Chamber	DC-780 Chamber	MC-3500 Chamber	MC-4500 Chamber
Size (W x H x L)	(34.0" x 16.0" x 90.7") [0.86 m x 0.41 m x 2.30 m]	(51.0" x 30.0" x 90.7") [1.30 m x 0.76 m x 2.30 m]	(51.0" x 30.0" x 90.7") [1.30 m x 0.76 m x 2.30 m]	(77" x 45" x 90") [1.96 m x 1.14 m x 2.29 m]	(100" x 60" x 52") [2.54 m x 1.52 m x 1.32 m]
Installed Length*	85.4" (2.17 m)	85.4" (2.17 m)	85.4" (2.17 m)	86.0" (2.18 m)	48.3" (1.23 m)
Chamber Storage	110 gallons (14.7 ft³)	343 gallons (45.9 ft³)	345 gallons (46.2 ft³)	822 gallons (109.9 ft³)	796 gallons (106.5 ft³)
Nominal Weight	35 lbs (15.9 kg)	75 lbs (34.0 kg)	80 lbs (36.3 kg)	135 lbs (61.2 kg)	135 lbs (59.0 kg)

*Use installed length when connecting more than one chamber in a row.

StormTech Chambers.

StormTech chambers are the practical and effective choice for managing residential drainage. Each chamber has an open bottom structure, making them ideal for infiltrating water. Water is stored and then infiltrated into the surrounding soil, recharging groundwater and preventing soggy lawn conditions.

How to Size Your StormTech Downspout System.

StormTech recommends that the downspout drainage system be sized according to local codes and regulations. The equation below is an example based upon one inch of rainfall. Use the correct rainfall amounts for your area when sizing your downspout drainage system.

SC-310   SC-740   MC-3500   MC-4500

$$\frac{\text{Roof Area (ft}^2\text{)}}{\text{\# of Downspouts}} \times \frac{\text{1 inch}}{\text{12 inches/ft}} = \text{Volume (ft}^3\text{)}$$

$$\frac{\text{Volume (ft}^3\text{)}}{\text{Volume (ft}^3\text{) per chamber*}} = \text{\# of StormTech chambers per downspout}$$

*SC-310= 14.7 ft³ (110 gal)
SC-740= 45.9 ft³ (343 gal)
DC-780= 46.2 ft³ (345 gal)
MC-3500= 109.9 ft³ (822 gal)
MC-4500= 106.5 ft³ (796 gal)
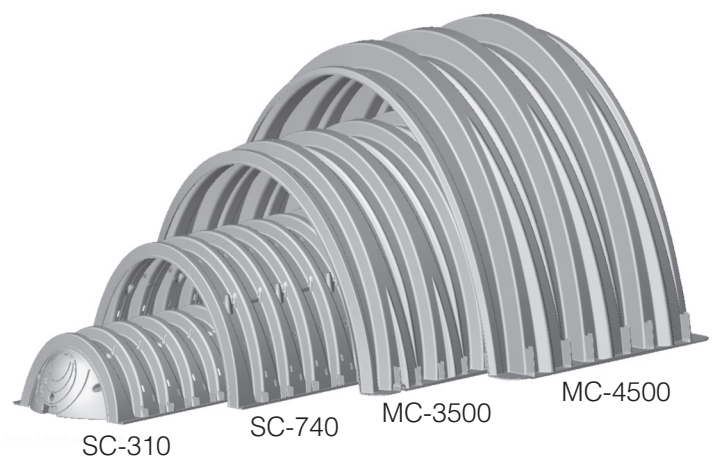
Assembly is Quick and Simple!

StormTech's lightweight chambers can be easily hand-carried and positioned into the trench. The chamber corrugations overlap allowing for a simple and secure connection of the units. Depending on chamber model chosen, end caps easily fit either under or over the chamber end corrugations. Filter fabric should be placed below the inlet pipe to prevent soil erosion, as well as, the fabric should cover the slots on the top inspection port area and sides of each chamber. This will prevent the downward migration of soils, which can leave undulations on the surface.

NOTE: For designing any commercial downspout, residential downspout drainage beds, or systems under traffic, please call our Technical Services Department at 1-888-892-2694.

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A division of **ADS**

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