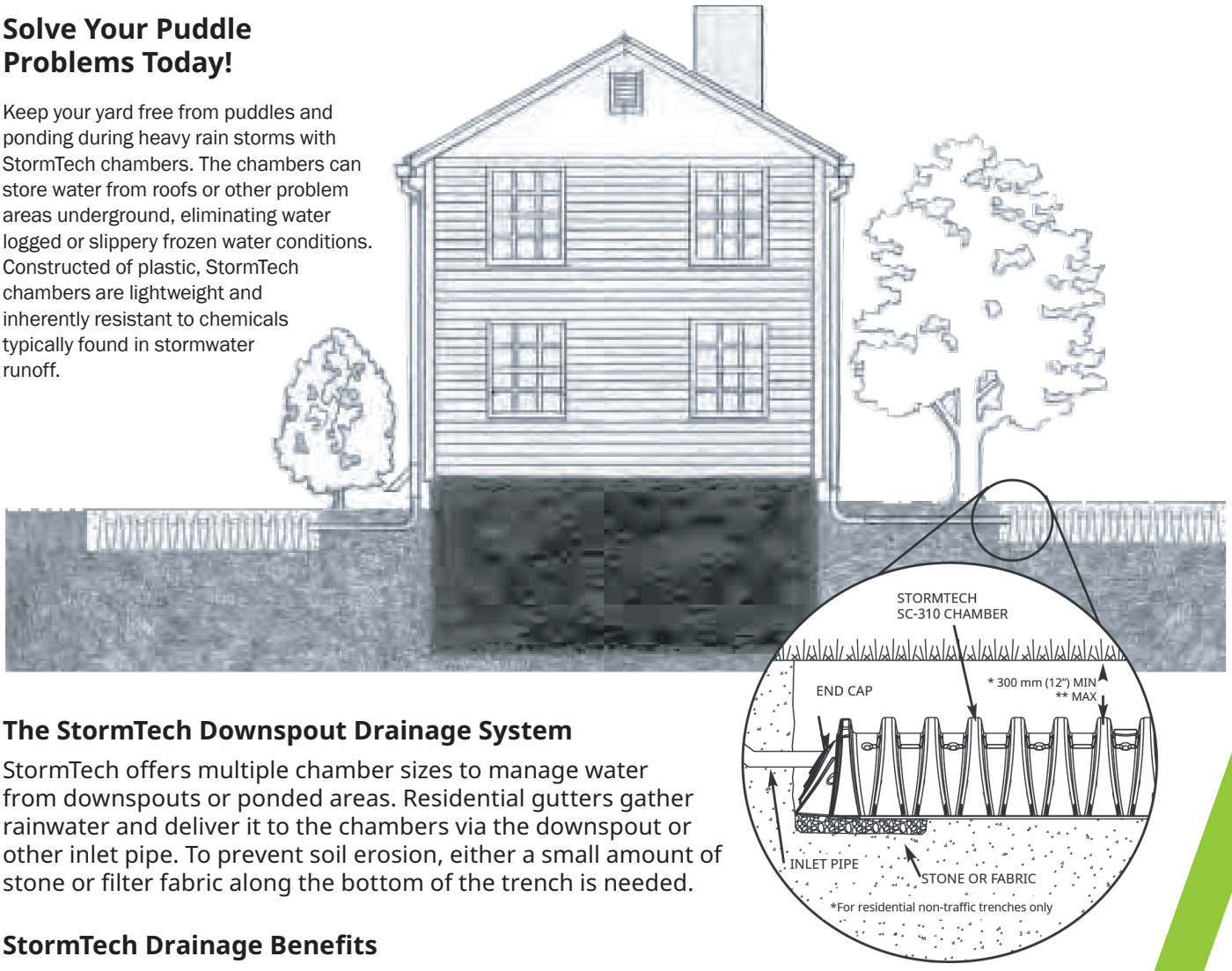
Residential Downspout Drainage Systems

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.



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
Divert runoff away to store safely and neatly underground. No more ponding water, frozen walkways or soil erosion.

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

Safety
Chambers eliminate erosion ditches and potential hazards caused by conventional roof drains and ice build-up in the winter.

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

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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-160 LP and SC-310 chambers offer a low-profile system, while the SC-800, DC-780, and MC-3500 maximize storage volumes in a smaller footprint.

	SC-160LP	SC-310	SC-800	MC-3500	MC-7200
Size W x H x L	0.64 mm x 0.31 mm x 2.17 mm (25.0"x 12.0" x 85.4")	0.86 mm x 0.41mm x 2.30 mm (34.0" x 16.0" x 90.7")	2169 mm x 1295 mm x 838 mm (85.4" x 51" x 33")	1.96 mm x 1.14 mm x 2.29 mm (77" x 45" x 90")	2.11 mm x 2.54 mm x 1.52 mm (83" x 100" x 60")
Installed Length*	2.17 m (85.4")	2.17 m (85.4")	2.17 m (85.4")	2.18 m (86.0")	2.0 m (79.1")
Chamber Storage	193 L (51 gallons) 0.19 m^3 (6.85ft^3)	416 L (110 gallons) 0.41 m^3 (14.7 ft^3)	1,248 L (343 gallons) 1.30 m^3 (45.9 ft^3)	3,111 L (822 gallons) 3.11 m^3 (109.9 ft^3)	4,977 L (1,315 gallons) 4.98 m^3 (175.9ft^3)
Nominal Weight	10.9 kg (24 lbs)	15.9 kg (35 lbs)	37.1 kg (81.8 lbs)	61.2 kg (135 lbs)	91.6 kg (202 lbs)

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.

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 visit **adspipe.com/stormtech/design-tool** to use our StormTech Design Tool.

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.

$$\frac{\text{Roof Area } (m^2)}{\text{\# of Downspouts}} \times \frac{25 \text{ mm}}{300 \text{ mm/m}} = \text{Volume } (m^3)$$

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

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

SC-160LP= 0.19 m^3 (6.85 ft^3)/193 L (51 gal)
SC-310= 0.41 m^3 (14.7 ft^3)/416 L (110 gal)
SC-800= 1.30 m^3 (45.9 ft^3)/1,248 L (343 gal)
MC-3500= 3.11 m^3 (109.9 ft^3)/3,111 L (822 gal)
MC-7200= 4.98 m^3 (175.9 ft^3)/4,977 L (1,315 gal)

Working on a project?
Visit us at adspipe.ca/stormtech and utilize the Design Tool

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