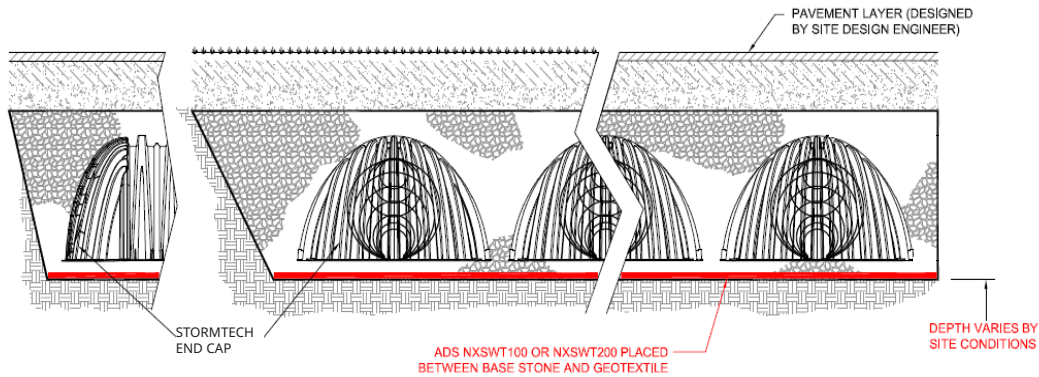


# StormGrid™ Installation Guide

StormGrid is used for subgrade stabilization below StormTech systems. The StormGrid is installed between the crushed aggregate foundation layer and the subgrade surface, as shown below:



## Site Preparation:

- Excavate the StormTech bed and prepare the subgrade per engineer's plans.
- Smooth the subgrade so that it is free from ruts or undulations greater than 4" (100 mm) in depth.
- Install the ADS 601T nonwoven geotextile over the prepared subgrade and up the excavation walls.

## Placing StormGrid:

- Position the rolls of StormGrid at the edge of the excavation base, cut the roll bands and manually unroll the material over the prepared surface.
- Before fully unrolling the StormGrid, anchor the beginning of the roll to the underlying surface in the center and at the corners of the roll's edge. Anchoring can be done with small piles of aggregate, pins, or heavy gauge staples.
- Unroll the StormGrid. Align it and pull it tight to remove wrinkles and lay down slack with hand tension, then secure in place. If necessary, geogrid can be repositioned after it has been unrolled. Lift adjacent unrolled sheets at their edges to avoid snagging.
- StormGrid should extend beyond the StormTech chambers by at least 12" (300 mm) or depth of the aggregate base thickness, whichever is greater.
- Overlap StormGrid at least 18" (450 mm) in all directions.
- Adjacent StormGrid rolls should be shingled in the intended direction of aggregate spread.

### **Dumping and Spreading Crushed Foundation Stone:**

- Place clean, crushed, angular stone foundation in controlled lifts over StormGrids.
- Only operate rubber-tired equipment directly on the geogrid if the underlying subsoil is not prone to rutting under construction traffic.
- Level grade the top of foundation stone and compact to achieve a flat surface.
- Refer to the StormTech Installation Guides for additional details about the construction of the StormTech system.

### **Making Repairs:**

If StormGrid becomes damaged during or after installation, repair it by patching the area with the following measures:

- Remove fill from the surface of the damaged geogrid and clear 18" (450 mm) around the damage.
- The geogrid patch should cover the damaged area and extend 18" (450 mm) beyond it in all directions.

### **Cold Weather:**

Store StormGrid above -20 °F (-29 °C) and avoid handling below 14 °F (-10 °C). At sub-freezing temperatures, StormGrid is less impact resistant and can be fractured with dynamic force (e.g. striking with a hammer). Other aspects of dynamic loading associated with very cold temperatures should be avoided.

### **Foundation Stone Specification:**

Foundation stone below the chambers from the subgrade up to the bottom of the foot (bottom) of the chamber shall consist of:

- Clean, crushed, angular stone or recycled concrete.
- Have an internal friction angle of at least 45°.
- Meet the gradation for AASHTO M43 Size Numbers 3, 357, 4, 467, 5, 56 or 57.

