

The Geopier Grouted Impact® system uses our traditional Impact pier with grout added to the open-graded aggregate during installation. Grout is introduced to the system within the mandrel and mixed in place to create a high-strength grout-aggregate mix. The end result is a very stiff, cemented pier element that provides confinement in weak soils and excellent settlement control for heavily-loaded structures.

## **APPLICABLE SOIL TYPES**

- Organic soils
- Very soft clays and silts

## **DESIGN CONSIDERATIONS**

- Can be used for most Geopier applications
- · Can be installed to depths of 40+ feet
- Ideal for organic soils, heavy loads, or adjacent structures
- Ideal for typical settlement tolerances (1 inch total; ½ inch differential)
- Foundations can be designed as conventional spread footings with bearing pressures up to 10+ ksf
- Slabs can be constructed as conventional slab-ongrade
- · Can be used for uplift resistance

## **CONSTRUCTION CONSIDERATIONS**

- No spoils/haul-off ideal for environmentally impacted sites
- Often results in 20% to 50% cost savings compared to traditional alternatives (removal and replacement and deep foundations)
- Rapid installation process means shorter construction schedules

## **INSTALLATION PROCESS**

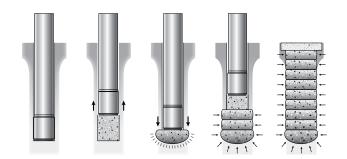
The grouted Impact pier installation process is essentially the same as the traditional Impact pier with the exception that grout is added continuously during installation.

Step 1: Advance the displacement mandrel through unsuitable soils to the desired design depth.

**Step 2:** Withdraw the mandrel several feet to allow the grout and open-graded aggregate mix to flow into the annular space.

**Step 3:** Redrive the mandrel to densify the recently placed grout/aggregate mix and surrounding soils.

Step 4: Repeat steps 2 and 3 to construct a grouted pier element in 2-foot-thick lifts to the ground surface.





Watch system installation videos at www.geopier.com

Whether you are an engineer, contractor, or owner - We can help.

For more information on Geopier solutions, call **800-371-7470**, visit **www.geopier.com** or email **info@geopier.com** 



