

DENSIPACT® SYSTEM Rammed Aggregate Pier® Technology



The Geopier Densipact® system is one of Geopier's primary densification solutions. This system was developed specifically for clean sand profiles typically encountered along the coast and near the Great Lakes. This system is unique in that it does not have a tamper or compaction chamber, rather it is composed of a series of tines connected to a base plate. Each individual tine imparts energy into the soil, densifying the sand to create a raft of very dense material directly beneath the footing. This system is unique in that it creates a mass of dense sand rather than distinct aggregate pier elements.

APPLICABLE SOIL TYPES

- Clean sand soils (fines content less than 15%)

DESIGN CONSIDERATIONS

- Can be used for any Geopier application
- Can be installed to depths of 20+ feet
- 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-on-grade

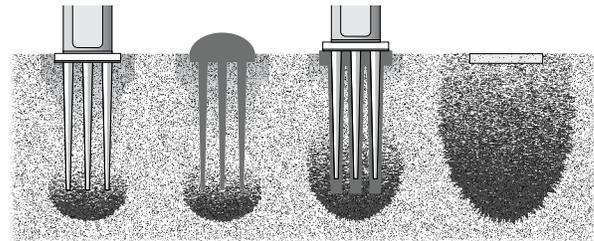
CONSTRUCTION CONSIDERATIONS

- 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

Geopier's Densipact is performed as follows:

- Step 1:** Advance the tines through looser sand soils to the desired design depth.
- Step 2:** Withdraw the tines and place sand into the annular space.
- Step 3:** Redrive the tines to densify the recently placed sand and surrounding soils.
- Step 4:** Repeat steps 2 and 3 several times to create a mass of dense sand.



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

