



a Rammed Aggregate Pier® System

GEOPIER® CALIFORNIA offers Impact® pier soil reinforcement, the full displacement Rammed Aggregate Pier® system for Liquefaction Mitigation and improving loose soil.



Impact® Pier System Advantages:

- RAMMED.** Heavy crowd plus vertical impact ramming into the ground is the key to high strength and stiffness.
- STRENGTH.** Vertical ramming results in very dense, Rammed aggregate pier® with unmatched vertical capacity.
- STIFFNESS.** Heavy crowd + vibratory hammering results in high pier stiffness for excellent settlement control.
- PROVEN.** Thousands of structures supported – proven experience ensures high levels of performance and reliability.
- ECONOMICAL.** Often results in 20% to 50% cost savings compared to deep pile foundation and deep mixing solutions.
- FAST.** Rapid installation process means shorter construction schedules.
- ECO-FRIENDLY.** Use recycled concrete and aggregate where available and increase LEED® points for certification.



Serving the San Francisco Bay Area, Sacramento Valley, San Joaquin Valley, Los Angeles Basin, Inland Empire, San Diego, and all across California.

Impact[®] Pier

Rammed Aggregate Pier[®] System

Impact[®] Pier Applications

LIQUEFACTION MITIGATION

Reinforce sandy soil to depths of 50 feet plus. Increase shear strength of silty and clayey sands. Reduce softening of silts and clays. Densify clean sands to 50 feet plus.

BUILDING FOUNDATION SUPPORT

Unmatched vertical stiffness! 50 to 150 kips bearing capacity per pier. Increase bearing capacity & reduce settlement of saturated fill and loose soil.

Fuel and Water TANK SUPPORT

Improve soil and fill to create uniform bearing platform for tanks.

SEISMIC UPLIFT RESISTANCE

Highly efficient uplift resistance per foot of depth, up to 100 kips ultimate tension.

EMBANKMENT SUPPORT

MSE WALL AND FILL SUPPORT

SLOPE STABILIZATION TO 50 FEET

Rest Assured with ...

PROVEN PERFORMANCE

A radical improvement on traditional vibrated stone column systems.

QUALITY CONTROL

Vertical crowd force recorded for each Impact Pier installed.

SUSTAINABILITY

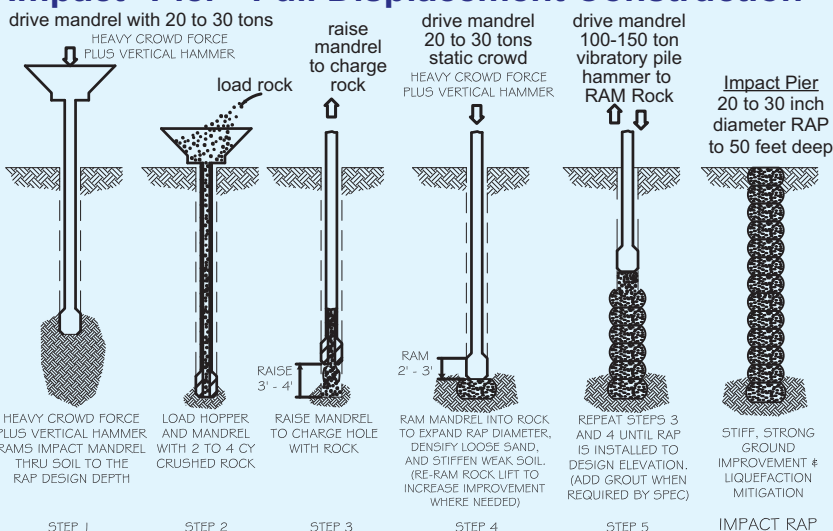
Use recycled rock/concrete for LEED[®] points.

COST SAVINGS

Cost savings of 20% to 50% compared to other ground improvement systems.

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Impact[®] Pier - Full Displacement Construction



Impact[®] Pier

- ✓ 20 to 30 inch diameter
- ✓ Treat to 50 feet plus
- ✓ Treat discrete sand zones
- ✓ 50 to 150 kips bearing
- ✓ Zero spoils solution
- ✓ Fully cased installation in high groundwater sand
- ✓ 20-30 tons vertical crowd
- ✓ 100-150 ton vibratory piling hammer
- ✓ Quick installation
- ✓ Grout solutions available
- ✓ Uplift anchor solutions

Impact[®] Pier = Reinforcement, Densification, and Drainage.

GEOPIER[®] CALIFORNIA ... a member of

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