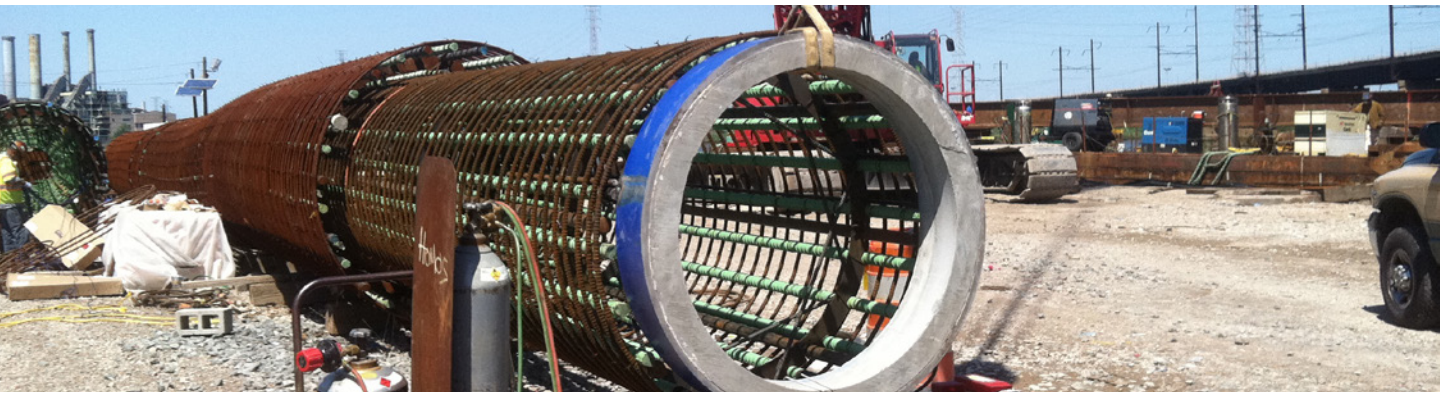
RIM-cell



Bi-Directional Load Testing for Production Piles

RIM-cell is the latest in drilled shaft design load confirmation quality assurance. RIM-cell is a tool with the means to statically verify shaft design capacity, typically to 1.2 – 1.3 times design load, thus reducing site variability and construction defect uncertainty. The RIM-cell is designed with drilled shaft constructability in mind; a large open center to not disturb the pile toe or obstruct concrete flow during placement and use of grout as the test fluid medium allows for pile integrity to return after completion of the shaft capacity quality assurance testing.

Maximize drilled shaft capacity and economy through the use of O-cell and RIM-cell technology.

- Use the O-cell to determine ultimate shaft capacity for the in situ geologic materials maximizing final shaft design.
- Use the RIM-cell in production shafts to allow design capacity confirmation of production shafts with site variability and constructability concerns.

The RIM-cell can also be used as a post-construction stressing device; engaging end-bearing to limit settlement or to consolidate loose material at the pile toe. In this application, a two stage grouting process initially confines the grout allowing for high static pressure in every soil condition. The second stage injects pressurized grout into the soil around the full circumference of the pile.

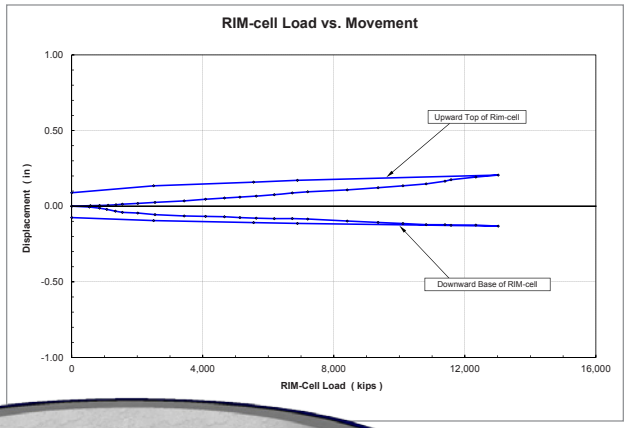
Rim-cell Advantages

Proof Test

- Economical
- Light weight
- Ease of installation
- No bearing plates required
- Open center for concrete placement
- Grout as test fluid restores pile integrity

Post-Stress

- Works reliably in every soil condition
- Full verification of execution
- No plates or gravel required
- Known effective area to calculate load
- Generates bi-directional LM curves
- Low volume of grout needed



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