

LOADTEST

Significant Building Foundations with O-cell® Technology



Walter Reed Medical Center
Bethesda, MD

INTRODUCTION

The O-cell method for testing the foundation capacity for high rise buildings provides numerous advantages over conventional top-loading.

As the technology for drilled shafts/piles develops and larger loads are demanded from each foundation element, the need to verify these design capacities is increased. These photos are some of the world class buildings that have successfully used our O-cell technology to test the foundation elements.



Four Seasons Hotel
Miami, FL

ADVANTAGES

A key benefit of using bi-directional testing is the elimination of additional anchor piles or reaction systems. The O-cell method allows one portion of the pile to react against the other during loading. In ground conditions where the end bearing may be comparable or greater than the friction, the O-cell may be located at the bottom of the pile and the test will measure end bearing and friction; directly and independently.

The O-cell method is particularly advantageous in congested areas or over water. The O-cell method allows for test piles to be subsequently integrated into the structure as a working pile.



Aladdin Hotel and Casino
Las Vegas, NV

APPLICATIONS

The O-cell method is well suited for any size and capacity drilled shaft, pile, or barrette. Typical test loads applied with the O-cell method often exceed 50 MN and have reached levels greater than 300 MN for some structures

1. **Bell Bay Plaza** – Manila Philippines
2. **Raymond James Tower** Tampa, FL
3. **Shriners Hospital Parking garage**, Tampa, FL
4. **Paradise Island Casino**, Nassau Bahamas
5. **Aladdin Hotel**, Las Vegas, NV
6. **Four Seasons Hotel**, Miami, FL
7. **Mission Valley Office Bldg**, San Diego, CA
8. **Desert Inn Hotel & Casino**, Las Vegas, NV
9. **Belize Condos**, Marco Island, FL
10. **Capitol Visitor Center**, Washington, DC



Torre Mayor
México City, México



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One Raffles Quay,
Singapore



Metroplex Complex,
Schenectady, NY



WorldCom Headquarters
Clinton, MS



Novartis Pharmaceuticals
East Hanover, NJ

11. **Mandalay Bay Casino**, Las Vegas, NV
12. **Hyundai Plant**, Montgomery, AL
13. **Baptist Hospital Garage**, Jacksonville, FL
14. **Holy Cross Hospital**, Silver Springs, MD
15. **Marriott Hotel**, Hartford, CT
16. **One Raffles Quay**, Singapore
17. **One North Wacker Drive**, Chicago IL
18. **Venetian Hotel & Casino**, Las Vegas, NV
19. **Orleans Hotel & Casino**, Las Vegas, NV
20. **Walter Reed Medical Center**, Wash, DC
21. **Hilton Hotel** - Hawaii
22. **Torre Mayor** - Mexico City, Mexico
23. **110 State St. Office Bldg**, Albany, NY
24. **Bay Shore Towers** Tampa, FL
25. **Metroplex Complex**, Schenectady, NY
26. **Philly Airport Control Tower**, Philadelphia,
27. **Half Moon Bay Condo's** CA
28. **Georgia International Plaza**, Atlanta, GA
29. **WorldCom Headquarters**, Clinton MS
30. **National Institute of Health**, Bethesda MD
31. **Novartis Pharmaceuticals**, E. Hanover NJ
32. **One Marina Blvd.** Singapore

