



RAM JACK

2016 CASE STUDY

Type: Commercial | Issue: OR201602

27 Ram Jack Piles
Completely Recover
Failing Multi-Unit
Housing Foundation

RAM JACK LOCATION:

Ram Jack West

www.ramjackwest.com | 866-472-6522

Eugene, OR

CASE STUDY 2016



Property managers of several multi-story apartments in Portland, Oregon, noticed that some of their structures showed signs of foundation issues. The structural integrity of a multi-unit housing structure is serious and can affect many families, as well as the investment of the property owners.

SITUATION

The property managers contacted Ram Jack West to report cracks that were forming in the walls and floors of several apartments. Additionally, doors and windows were not closing properly. The heat of the summer months exacerbated the problem. Windows were also starting to crack.

PROPOSED SOLUTION

Ram Jack West and Geo Design, Inc. designed an installation plan to repair the failing foundations. The plan included installing (16) 2 7/8 in. helical piles and (11) 2 7/8 in. deep-driven steel piles. This proposal would lift the two apartment buildings experiencing foundation damage.



**Ram Jack installed
27 piles to an
average depth of
60 ft. to achieve
complete recovery**

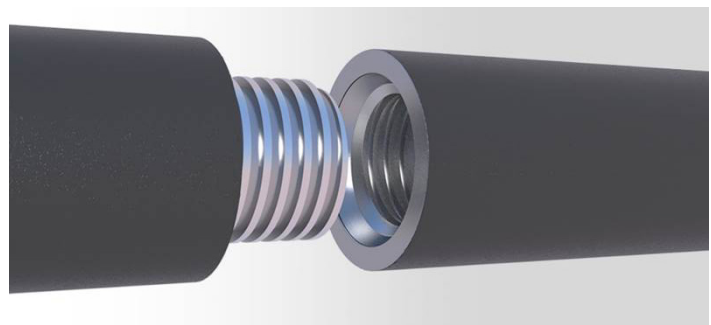
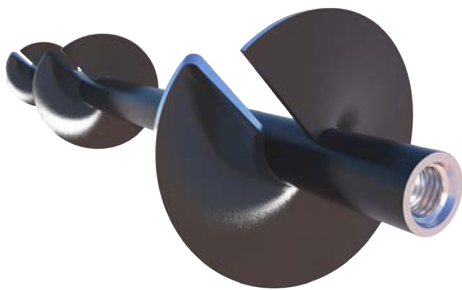
INSTALLATION OVERVIEW

Total # of Piles: • 27

Products Used: • #4368 2 7/8" dia. Helical Pile

Product Type: • Remedial helical

Typical Applications: • Ram Jack's 2 7/8" dia. helical lead sections can be used in either tension or compression due to its unique internal threaded connection.
• Internal threaded connection makes a smooth homogenous pile



OUTCOME

Ram Jack installed 27 piles, including 10-12 multi-helix piles as well as driven piles, to an average depth of 60 ft. The foundation was lifted 3 in. Ram Jack completed the installation in 11 work days. Ram Jack was able to achieve a complete recovery of the apartment buildings. During the repair process Ram Jack remodeled and replaced the deck as needed. Property managers at the Courtyard indicated they were pleased with Ram Jack's professional work during installation as well as clean-up afterward. They noted that not one person living in the apartments complained about the noise during the two-week job.



INTRODUCING THE ALL-NEW

TECHNICAL MANUAL



EVERYTHING AN ENGINEER NEEDS

The Ram Jack Technical Manual provides engineers with the information that you will need to understand, design, and specify Ram Jack's helical and driven piles. It also provides information verifying compliance with current building codes and ICC-approved acceptance criteria.

Everything an engineer could ever want and need to know about Ram Jack Helicals and Driven Piles in one book. If you or your firm would be interested in a Ram Jack Technical Manual, please contact your local Ram Jack dealer by emailing info@ramjack.com.

Franchise Highlight

Ram Jack West

Ram Jack West is headquartered in Eugene, Oregon, with additional locations in both Portland, Oregon, and Seattle, Washington. Our three locations allow us to provide the highest customer service to all homeowners in both Oregon & Washington.



LOCATIONS

- EUGENE, OR
- PORTLAND, OR
- SEATTLE, WA

CONTACT US

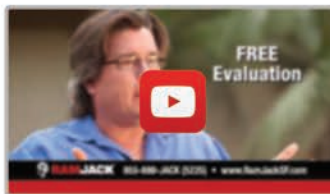
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