



RAM JACK[®]

2016 CASE STUDY

Type: Residential | Issue: OH201601



**4 ft. Lift With Ram
Jack Helical Piles
Stabilize Settled Porch**

RAM JACK LOCATION:

Ram Jack Ohio

www.ramjackoh.com | 440-975-3595

Eastlake, OH

CASE STUDY 2016

RAM JACK OHIO

EASTLAKE, OH

440-975-3595

www.ramjackoh.com



Installation of helical piles to lift and support foundation

PORCH SAFELY LIFTED TO RECOVERY

INSTALLATION OVERVIEW

Total # of Piles: •4

Products Used: •#4364 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.



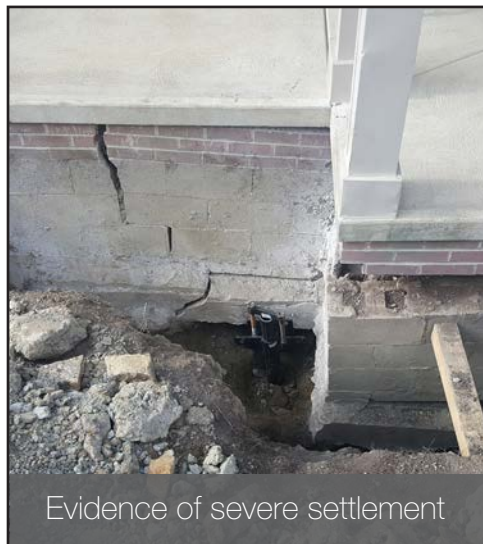
RAM JACK

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A home's porch in Strongsville, Ohio, began settling, revealing foundation issues. After the problem proved to be more severe than originally believed, Ram Jack Ohio was brought in to help resolve the issue.

PROBLEM

The foundation underneath the porch of the home settled several inches from its original elevation. This caused cracks in the brick fascia. It wasn't originally clear how much the porch had settled until another contractor excavated the dirt around the porch. It was revealed that the foundation had also started to fall away from the porch. In order to be repaired, the porch would need to be lifted back up and pushed into alignment.



Evidence of severe settlement

PROPOSED SOLUTION

Ram Jack teamed up with Leinweber Engineering to design a solution for the homeowner. Donald Leinweber, of Leinweber Engineering, proposed a solution that included using four (4) Ram Jack helical piles. This proposal would support and lift the failed foundation. Ram Jack Ohio would also install angle iron to create a new footer for the foundation.



OUTCOME

The helical piles and angle iron were installed as planned. Once the four (4) helical piles were installed successfully and Ram Jack started to achieve a lift, a C channel was placed along part of the wall horizontally. A hydraulic jack was used to push the foundation back into alignment. Ram Jack completed the installation in seven work days, and the house was lifted 4 ft. for a complete recovery.