MAGNUM PIERING eNews

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Greetings!

Welcome to Fall in the Construction Industry...which means the helical pile world has been busy! In this edition we are featuring our Helical Post Base in a Case Study. Secondly, Magnum has a new patent. Finally, a brief recap of the DFI Helical Pile Usage for Disaster Relief Seminar.

In This Issue

Request for Donations DFI Global Research Initiative

Research has shown that helical piles perform well in seismic regions. Currently helical piles are not prescribed in the US building codes for earthquake prone regions. The goal of the DFI research initiative is to explore uses for

ThinAir Communications Tower

Thin Air Communications installed a MAGNUM Helical Post Base for Encana Oil & Gas in Colorado. Magnum's post base was patented by Howard Perko, and has been in our catalog since 2012. Its slotted top plate and four bolt connection allows adjustment in positions and inclination. Side cutting teeth reduce installation torque and improve penetration into tough ground conditions. Magnum's MBSS Helical Post Base is a full displacement deep foundation for support of sound barriers, luminaries, signs, wind towers and other structures where the primary loading condition is overturning or lateral shear. There is no drill spoil or vibrations during installation. Also, they do not require concrete and can be attached to structures immediately after installation. Our post bases are ideal for rail corridors, rural areas, along highways, and near bridge/overpass approaches. Click here to read other case histories.

New Patent: Sacraficial Drill Tips for Drilled Displacement Piles

Drilled displacement piles consist of closed-end, hollow steel casing with a sacrificial drill tip. The entire

helical piles in seismic resistance and, in turn will significantly benefit our industry. Magnum has made a significant contribution to the DFI toward this effort. Magnum is asking customers and vendors to consider donating to DFI. Contact BJ Dwyer of Magnum for more information. Stay tuned!

casing and drill tip are rotated into the ground typically using a fixed mast drill rig or mobile ram with considerable crowd and torque. The capacity of drilled displacement piles is generally derived from side shear. The shear strength of soil adjacent the casing is believed to be enhanced due to displacement and compaction as a result of pile installation.

Magnum's patent is for the unique shape of the sacrificial drill tip which consists of three gusset plates and dual cutting edge helix affixed to a central stinger tube with 45 degree point. Magnum's sacrificial drill tips are considerably more affordable compared to formed and tapered tube tips offered by others. Click here for more information about our products.

DFI Helical Pile Usage for Disaster Relief

Magnum attended DFI 2015 Helical Piles & Tiebacks Seminar September 9th - 10th in Newark, NJ. Slabjack Foundations exhibited representing Magnum. Several areas in the U.S. have suffered from significant natural disasters in recent times. Magnum has developed several products to help prevent damage to structures. Dr. Howard Perko spoke about home elevation and foundation reconstruction in hurricane prone regions. The presentation addressed function (flood water and wind resistance), code compliance, economics (cost and future flood insurance premiums), schedule, and aesthetics. Dr. Perko also spoke about earthquake resistance of helical piles. Click here for more information about this event.

Thank you for your time and interest. Contact us for all your foundation product needs!

Sincerely,

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