



TILT-UP WALL SUPPORT

EFFICIENT SOLUTIONS WITH CHANCE® HELICAL ANCHORS

Office buildings, warehouses, and other large buildings are on a fast-paced construction schedule, and prefabricated perimeter walls increase efficiency and save time at the job site. By using tilt-up panel construction, the contractor has the advantage of being able to complete site preparation and footings while the wall panels are being made.

KEY BENEFITS OF USING CHANCE® HELICAL Anchors FOR TILT-UP WALL SUPPORT:

- Quick and easy installation using standard hydraulic equipment
- Immediate loading - no waiting for concrete to cure
- Removable and reusable - one investment, multiple uses!
- Can resist axial/lateral/moment loading
- Load capacity based on torque correlation
- Instant torque-to-capacity feedback for production control
- Installs in most weather conditions, even below freezing
- No excavation or spoil removal
- No vibration

When the footings are prepared, the concrete panels are set with a crane and held in place by temporary pipe supports (struts). One end of the strut is tied to the panel and the other end needs to be supported at the ground, as shown in the photo.

Contractors have a choice for how to temporarily secure this support system until the roof is in place, tying the structure together.

Many contractors use massive temporary concrete blocks as dead weight to temporarily hold the wall in place. These concrete blocks are intrusive and expensive to purchase and haul to each project site.

Another method for supporting tilt-up walls is by bolting the support strut directly to a concrete



subfloor. However, interior struts can interfere with other work, and doing the ground prep to pour a slab before the roof is in place increases the risk of delays due to weather.

CHANCE® helical anchors are an ideal, reusable alternative to wasteful and bulky concrete deadmen or inefficient subfloor bracing for tilt-up wall construction.

Helical anchors are installed by being screwed into the ground by any common construction equipment that can utilize a torque motor and Kelly bar. Engineers determine the type of anchor and installation depth required to support the weight of the panel in tension and compression. Temporary helical anchors are installed to the required capacity, which is easily validated during installation by monitoring installation torque.



SAVE SPACE + SAVE TIME + SAVE THE PLANET = SAVE MONEY

Since helical anchors support loads in both tension and compression applications, they are perfect for tilt-up walls, which are subject to wind load trying to push or pull the wall. Each panel typically uses one helical anchor, commonly a CHANCE square shaft helical anchor.

A 7-foot-long SS5 square shaft helical anchor, weighs only 77 pounds, but can support a load of up to 50,000 pounds, depending on soil conditions.

CHANCE helical anchors are the fastest installed ground support on the market that will support the loads required to hold up a tilt-up concrete panel. Hundreds of helical anchors can be installed in a day allowing more panels to be set compared to concrete options. Installation isn't dependent on weather either - they can be installed in rain or snow and can be immediately loaded.

A key advantage of this system is that the helical anchor can be quickly installed, removed, and transported to the next project, where it can be used again. Unlike concrete, helical anchors are easy to store and move. Made from recycled steel - and reusable and recyclable - helical anchors are a sustainable, responsible way to avoid creating spoils and pollution associated with concrete.

INSTALLING HELICAL ANCHORS FOR TILT-UP WALL SUPPORT

A helical anchor is installed at an angle, typically 45 degrees, using standard hydraulic equipment. A bracket is attached to the top of the helical anchor shaft as a termination with the support strut attached. The panel is then tipped up with the bottom setting on the wall footing. The wall is plumbed, and the strut is attached to the wall and helical anchor. Once the structure's roof frame is in place, the helical anchor and the pipe support can be removed and stored for use at the next job site. Helical anchors come out as quickly as they go in, ready for the next project. One investment with multiple uses.

POPULAR PRODUCTS FOR TILT-UP WALL APPLICATIONS



SS5 or SS175
Square Shaft Helical
Anchor



Tilt-up Adapter
C1502041 or C1502042



Digital torque indicator
for load capacity
calculations

CHANCE® The Certified Helical Anchor™

CHANCE Civil Construction | 210 North Allen Street | Centralia, MO 65240

©Copyright 2022 Hubbell Incorporated. Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice. Printed in the U.S.A. | SF04334E_0122

