Emergency Lift Plate
Precautionary method for lifting a tilt-up panel when inserts are improperly located or unusable

The Emergency Lift Plate is designed for situations when the original insert is improperly located or unusable. The plate is attached to the tilt-up panel using Titen HD Anchors 3/4”x6” (recommended) or equivalent. Refer to manufacturer instructions and load chart for proper anchor installation and capacity.

The Emergency Lift Plate should be installed over the original insert location or in alternate position designated by an experienced tilt-up professional. If uncertain about the location, contact the lift/brace engineer for further recommendations. Always be certain the Emergency Lift Plate is aligned with crane rigging cables.

The Emergency Lift Plate has a maximum safe working load (SWL) of 22,000 lbs. (at 5:1 safety factor) and should never be used in excess of that capacity.

When drilling holes for anchors, be careful not to inadvertently damage structural rebar in the tilt-up panel. Only the Engineer of Record (EOR) can approve deviations in the rebar design or integrity. Contact the lift/brace engineer if reinforcing or reconfiguration is needed for lifting purposes.

Warning:
1. Concrete must have a minimum of 3,000 psi compressive strength.
2. Do not use the Titen HD Anchor in tilt-up panels thinner than 7”.
3. Edge distance should be a minimum of 12” to center of holes.
4. Do not reuse Titen HD Anchor bolts.

Installation:
1. Drill holes at 90 degree angle to the panel surface using a 3/4” diameter carbide-tipped drill bit.
2. Drill a minimum of 5-3/4” deep for 6” anchor into the panel. Use the Emergency Lift Plate as a template.
3. Clean the drilled holes with compressed air or blow-out bulb.
4. Only use new Anchors with clean and undamaged threads.
5. Place Emergency Lift Plate over the holes and position Anchors.
6. Securely tighten the Anchor using a 3/4” impact wrench to a minimum of 100 ft-lbs torque.
7. Use 3/4” F436 Structural Washer where needed.