

Utility Anchor System

The Dayton Superior Utility Anchor System is designed to economically simplify the lifting and handling of precast concrete elements. Its economics, ease of use and versatility will be a welcome addition to your precast operations.

Key Advantages

- High strength – up to 24,000 lbs. SWL
- No special lifting hardware required
- Uses a standard hook or clevis
- Easy to install and use
- Utilizes reusable 90° and 45° polyurethane recess plugs
- Eliminates “through holes” in the precast element
- An economical and versatile system – applicable to any precast concrete element

Added Benefit

Utility contractors can use the utility anchor effectively as a pulling iron. When used as a pulling iron, the safe working loads may be increased by 33%, based on the use of a 3 to 1 factor of safety.

The design of the Dayton Superior Utility Anchor Utility System assures the precaster of an economical, user-friendly system for lifting and handling precast concrete elements.

Utilize the Utility Anchor System to:

- Remove precast elements from their forms
- Handle in the precast yard
- Load for shipment
- Unload and place at the job site

The precaster is able to do it all without the need for any special lifting equipment or hardware. Simply use a standard hook or shackle to connect slings to the utility anchor for a safe lift.

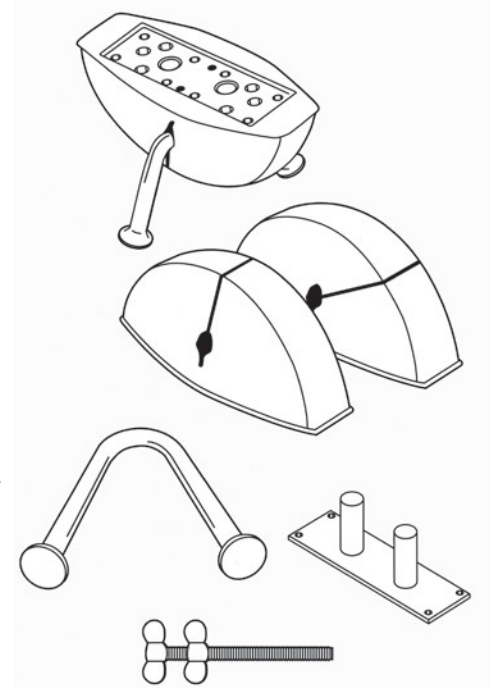
The Utility Anchor System uses a polyurethane recess plug to create a void in the concrete. The concrete void created for the P75 utility anchor is sufficiently large to accept the following:

1. 6-ton Grade 8 alloy hook or
2. 7-ton forged alloy shackle

For the P75H Utility Anchors:

3. 15-ton cast/alloy hook or
4. 15-ton forged alloy shackle

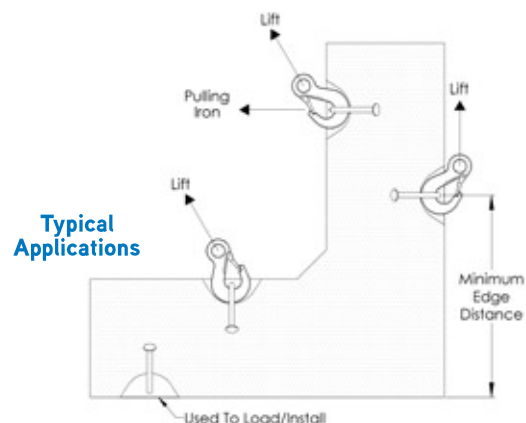
DO NOT use larger hooks or shackles; they will apply additional and unintended loads to the utility anchor and could cause a premature failure of the concrete or anchor.



Utility Anchor Lifting System

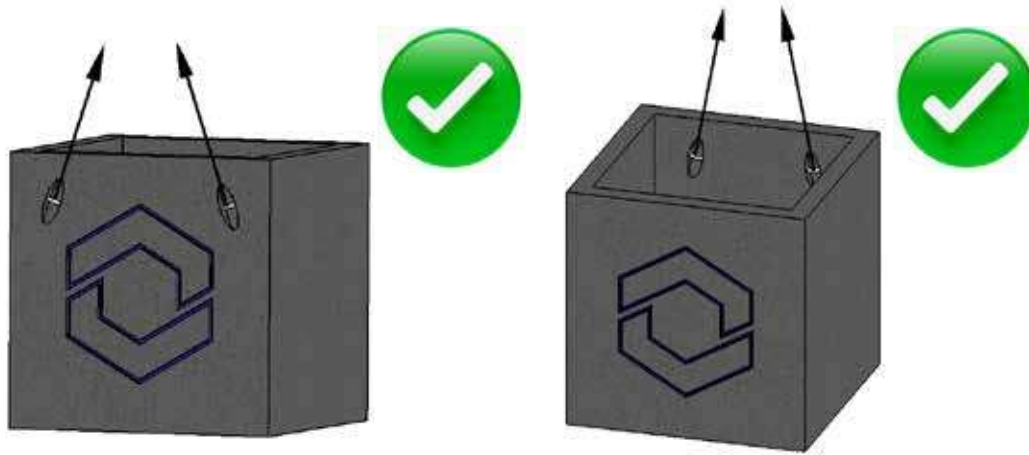
Anchor Placement

Placement of the Utility Anchor is dependent on the structural shape of the precast element. Utility anchors are not designed for thin edge installation. Always maintain minimum edge distances. For special conditions, contact the nearest Dayton Superior Technical Service Department for assistance.



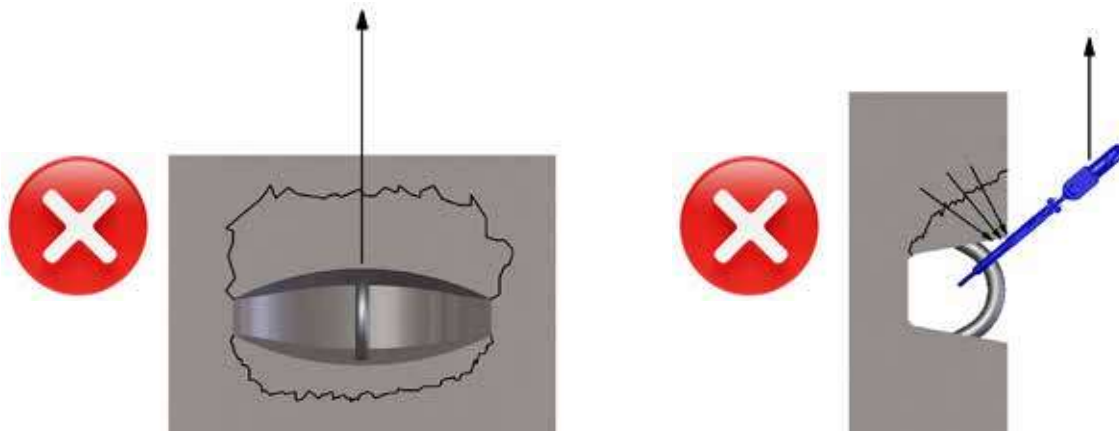
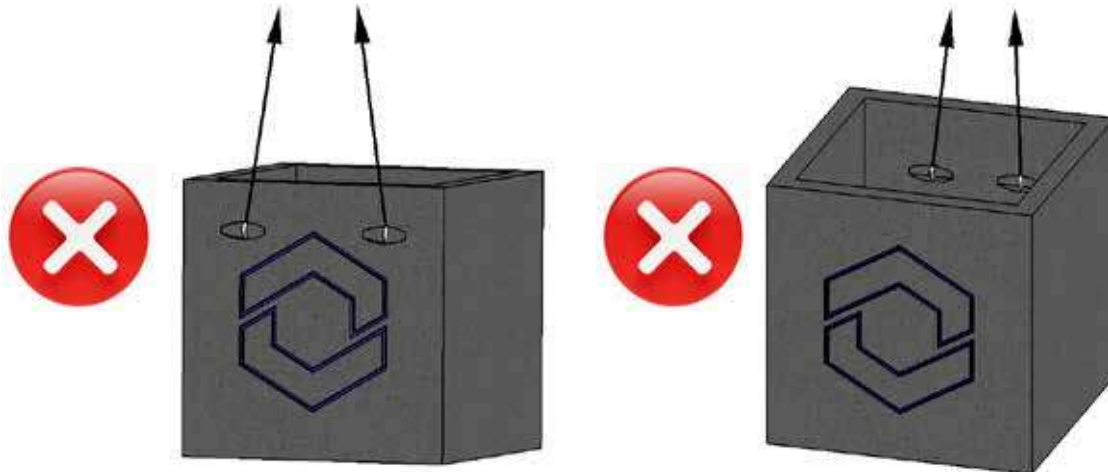
Proper Lifting With Utility Lift Anchors

To avoid spalling of the concrete or prying on the utility anchor, rigging must be oriented along the centerline of the utility anchor. There is a 10° tolerance for the rigging with respect to centerline of the anchor/void.



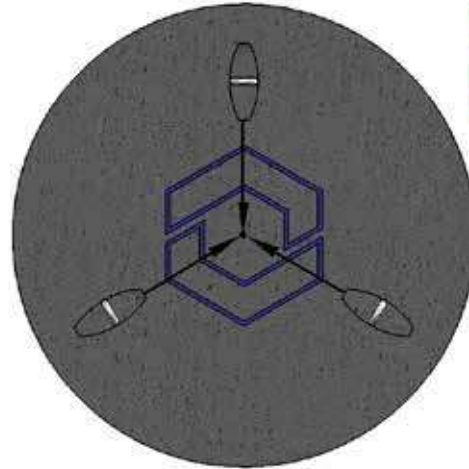
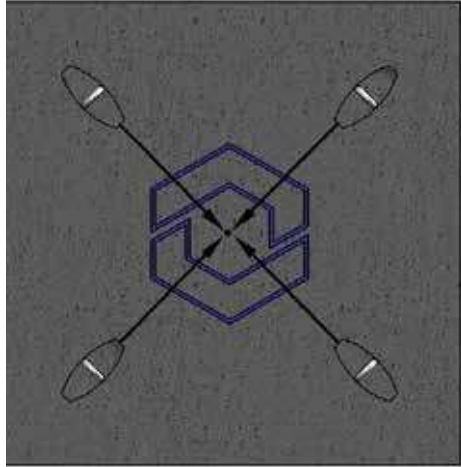
Utility Anchor
Lifting System

The utility anchor must NEVER be placed perpendicular to the direction of pull. This will unevenly load the utility anchor and result in excessive loading, bending, and in some cases premature failure. Concrete spalling and hook damage is also likely.



Proper Lifting With Utility Lift Anchors cont'd

Correct alignment of anchors:



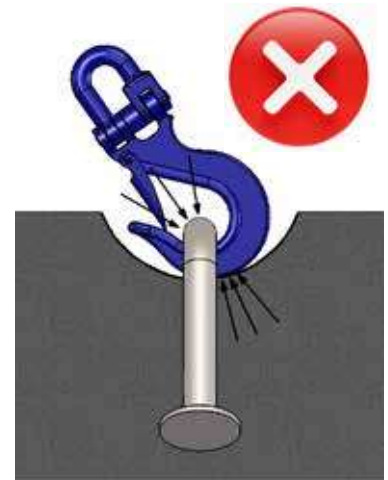
Always orient the void in the direction of loading.



The hook must not contact the concrete element.



The latch or opening of the hook must be opposite of the direction of loading.



The hook must not contact the concrete beneath the anchor loop. This will result in a prying action and could cause premature failure.