



Storage, Handling, and Installation DIAMOND DESIGN PRECAST, INC.

Storage

Delivery of precast elements should be planned according to the general construction sequence to minimize unnecessary site storage and handling. If storage is unavoidable, an area should be selected that shall be firm enough and level enough to avoid causing damage to stored products. Storage areas should be arranged so that products will not be damaged and are readily accessible. Do not stack pallets on top of each other as damage will occur.

Handling

Precast concrete elements are heavy, and every precaution should be taken to protect job site personnel from injury during the handling process. Also, this is the most common action that damages precast products. Ensure that the products can be unpackaged and lifted into place without bumping into obstacles or dropping.

Installation

Proper installation which included proper handling, placement and tightening of the bolts is absolutely critical to proper product performance.

Depending on the size and weight of the precast product, installation is a minimum two-person job as concrete is heavy and can be difficult to handle.

Before moving precast products, ensure they are ready to go directly into their final resting place.

❖ Stair Treads and Landings:

- Have the brackets secured to the stringers with lag bolts or welding to metal stringers.
- Set the stair treads on top of bracket and insert machine bolts into insert through the bracket.
- Line the threads up with the bracket holes and insert the machine bolt.
- Snuggly tighten the bolts. Overtightening can strip the threads and potentially crack the tread.

❖ Pavers:

- Ensure that the subgrade has been prepared to be compact, level and well drained.

❖ All Precast Concrete:

- Ensure precast concrete is installed such that it does not stay in contact with standing water.