In September 2012, a construction worker lost his life after this C-joist system collapsed.

- Don’t place any load on a deck before properly mounting, fastening and connecting C-joist systems.
- Never overload a deck.
- Review and follow the design drawings and the manufacturer’s specifications.
C-Joist Systems
Safe Installation

Protect your life — and the lives of others. Don’t place any load before properly mounting, fastening and connecting C-joist systems. And never overload.

When installing C-joist systems, manufacturer’s specifications become part of the design set when design drawings refer to them. Always consult the manufacturer’s specifications, and keep a set on site. Be sure to use web stiffeners, connections and bridging properly — and follow the manufacturer’s specifications (material, spacing, size) for fasteners and screws.

To install C-joist systems, review and follow NYC Building Code §2210 and §1704.3.4.

EXAMPLE 1: C-joist with web stiffener over support
EXAMPLE 2: C-joist pocketed to wall, anchor joist to wall per design
EXAMPLE 3: C-joist with stiffener attached to track at wall
EXAMPLE 4: Bridging of C-joist with straps and blocks

Timing  Fasten elements in place immediately: Strapping, bridging and end connections must be installed as soon as the C-joists are mounted. Each joist must be strapped or bridged at the top and bottom.

Loading  Don’t place any load before properly securing the decking into joists (stiffening, fastening, strapping/blocking connections).

Loading  1) Follow the manufacturer’s loading specifications, and ask the design engineer how to load material on decks. Shoring may be needed where excessive loads (i.e., masonry, pallets, sand, mixers, concrete bags) are being placed.
   2) Avoid placing too much concrete in one spot when pouring on decks supported by C-joists.

Spacing  The distance between bridging must meet the drawings or manufacturer’s specifications.

Installing  Place stiffeners at end supports and over any intermediate support of the C-joists. See Example 1.

Call 311 to report dangerous conditions.