

**STANDARDS PRESENTATION
TO
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD**

PROPOSED STATE STANDARD,
TITLE 8, CHAPTER 4

§1714. Hoisting and Erecting of Precast, Prefabricated Panels (Other Than Tilt-Up).

- (a) An erection plan and procedure shall be prepared by a civil engineer currently registered in California (the responsible engineer).
- (1) The erection plan and procedure shall be available at the job site.
- (2) Job site inspections shall be made by the responsible engineer (or an authorized representative) during the course of erection to ensure that the erection plan and procedures are followed.
- (3) Any proposed field modifications shall be approved by the responsible engineer and added to the plan and procedure available at the job site.
- (4) Precast wall or vertical panel bracing shall be designed by, and installed in accordance with the direction of, the responsible engineer.
- (5) Lifting methods and procedures shall be such that employees are not at risk of being struck by the panel or other supporting equipment.
- (b) ~~All attachments shown on the erection plan shall be installed before the panel lifting load line is released.~~ Lifting inserts embedded or otherwise attached to precast concrete members shall be capable of supporting at least four times the maximum intended load.
- (c) Lifting hardware shall be capable of supporting at least five times the maximum intended load applied or transmitted to the lifting hardware.
- (d) Precast concrete wall units and structural framing shall be supported to prevent overturning and collapse until permanent connections are completed.
- (e) ~~(e)~~ Adjustment of panels, after initial placement, which requires the lifting of the panel in any manner shall not be made unless wire rope safety tie backs are used or the panels are reattached to a load line.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

§1715. ~~Precast Tilt-Up Concrete Panel Construction, Including Tilt-Up.~~

- (a) Concrete erection stresses, lifting point attachments and locations in tilt-up concrete panels shall be designed by a currently registered civil engineer for expected loads, including impact.
- (b) Lifting inserts which are embedded or otherwise attached to tilt-up precast concrete members, ~~other than the tilt-up members~~, shall be capable of supporting at least four two times the maximum intended load ~~applied or transmitted to them~~.
- (c) Lifting hardware shall be capable of supporting at least five times the maximum intended load applied or transmitted to the lifting hardware.
- (d) ~~Precast wall or V~~vertical panel bracing used to support the tilt-up panels prior to final bolting/attachment shall be designed by, and installed in accordance with the direction of, a currently registered civil engineer. The bracing shall be designed to withstand, at a minimum, a wind load induced force of a 70 mile per hour wind. of at least 10 pounds per square foot. (See Appendix Plate B-5).

**STANDARDS PRESENTATION
TO
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD**

Attachment No. 1

Page 2 of 2

PROPOSED STATE STANDARD,
TITLE 8, CHAPTER 4

- (1) Prior to the commencement of panel erection, a detailed lifting plan shall be prepared by a currently registered civil engineer. All panel erection shall be performed in accordance with the plan.
- (2) Lifting methods and procedures shall be such that employees are not at risk conducted in such a manner as to ensure that in the event of lifting attachment failure, employees shall not be exposed to the hazard of being struck by the panel or other supporting equipment.
- (3) The lifting plans and procedures shall be available on the job site.
- (4) Field modifications to the lifting plan shall be approved by a currently registered civil engineer and added to the plans and procedures available at the job site.
- (e) Tilt-up wall panels shall be supported to prevent overturning, toppling and/or collapse until permanent connections are completed.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.