

# CONSTRUCTION OBSERVATION BULLETIN

## COB 01-28-15



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Facilities Development Division  
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### **Issue:**

#### **ASC Pacific 3WH & 3WHF metal deck**

ASC Pacific stopped producing their 3W and 3WF, 3" deep metal deck around January 2014 and started producing 3WH and 3WHF deck with a flute width of 3 7/8" instead of 4 3/4". Although most properties of the deck are similar the reduced flute width raises issues with minimum edge distance/flute width requirements for welded-headed studs, as well as inserts and anchors, which may be installed into the bottom of the deck.

### **Background:**

On several recent Hospital Construction projects in California the ASC Pacific 3WH or 3WHF deck was substituted. The implication of the substitution extends to welded-headed studs, inserts and anchors (including post installed anchors) specified for supporting utilities that would have reduced capacities in the narrower flutes of the deck.

ASC Pacific reports that they have gone back to producing the 3W and 3WF deck profile with a 4 3/4" wide bottom flute as well as the new 3WH and 3WHF deck with the 3 7/8" wide bottom flute.

### **Conclusion:**

Where ASC Pacific 3WH or 3WHF deck was received since January 2014 the structural engineer of record should investigate the compatibility of the deck bottom flute width with welded-headed stud values as well as all anchors and inserts specified. All other section, and allowable stress properties of the deck should also be verified against project requirements. Any changes or substitutions shall be approved as an Amended Construction Document per Title 24, Part 1, Section 7-153. All future projects shall verify compatibility of the deck with proposed welded-headed studs, anchors and inserts.

For additional information or questions please email Gerard K. Zelnik, Regional Compliance Officer, Inspection Services Unit at [OSHDPD.FDDISU@oshpd.ca.gov](mailto:OSHDPD.FDDISU@oshpd.ca.gov).