

INTERCONNECTION TIES FOR INDIVIDUAL PILE CAPS AND CAISSONS

Chapter 18 of the City of Los Angeles Building Code, Section 1810.3.13 states that individual deep foundations shall be interconnected by ties. In addition to the exception for R3 and U occupancies listed in the code section, this information bulletin provides the following exceptions:

- (1) In one-story buildings without basements where the ground under the building is a natural deposit, in conjunction with a soil and/or geology report approved by the Department and the first story floor level is not over six feet above the adjacent grade at any point.

- (2) In one-story buildings without basements where the ground is a contained fill, provided:
 - a. The floor is of minimum 4-inch thick concrete slab reinforced with ½-inch diameter deformed reinforcing bars, spaced at intervals not exceeding 16 inches each way. Furthermore, there shall be sufficient dowels extending from the caissons or piles into the slab to transmit the required 10 percent force.
 - b. The caisson or piles extend to the level of the slab; or the required horizontal loads be otherwise transmitted between the level of the slab and the top of the caisson or pile.
 - c. The surrounding surface of filled ground does not exceed a slope of one vertical in five horizontal.