



INFORMATIONAL BULLETIN

Bulletin No.: 295

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Effective: 11/30/01

Chief Building Official

CONCRETE SLAB FOOTING FOR STEEL STORAGE RACKS

The City of Irvine is located in Seismic Zone 4. The failure of concrete slab as grade footings due to uplift of steel storage racks in buildings could cause collapse of the racks and endanger the lives of those occupying the building.

The City does not permit the use of plain unreinforced concrete slab footings to resist uplift due to overturning induced by lateral forces. Unreinforced concrete slab footings may *only* be used to provide support for downward forces of steel racks.

The engineer responsible for the design of the racks is required to demonstrate by engineering calculations that the soil bearing capacity is adequate, and that the slab footing is capable of resisting the design shear and the design flexural bending.

Reference: California Building Code Section 1922, 1998 Edition