



STATE OF WASHINGTON

STATE BUILDING CODE COUNCIL

Department of General Administration

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STATE BUILDING CODE INTERPRETATION No. 11-01

CODE: 2009 IRC

SECTION: R403.1.3. Seismic Reinforcing

QUESTION: What lap splice dimension and grade of steel should be used in concrete footings in Seismic Design Category Do, D1 and D2? Does the Code intend for the wall requirements for concrete and steel to also apply to the footing requirements?

2009 IRC section **R403.1.3. Seismic reinforcing**. Concrete footings located in Seismic Design Categories Do, D1 and D2, as established in Table R301.2 (1), shall have minimum reinforcement. Bottom reinforcement shall be located a minimum of 3" clear from the bottom of the footing.

Wall requirements for steel:

In IRC section **R404.1.2.3.7.1 Steel Reinforcement**... In buildings assigned to Seismic Design Category Do, D1 and D2, reinforcing steel shall comply with the requirements of ASTM A 706 for low-alloy steel with a minimum yield strength of 60,000 psi (Grade 60).

Also in IRC section **R404.1.2.3.7.5 Lap Splices**. Vertical and horizontal wall reinforcement shall be the longest lengths practical. Where splices are necessary in reinforcement, the length of lap splices shall be in accordance with Table R611.5.4 (1) and figure R611.5.4(1).

ANSWER: Yes, the code intends lap splicing and grade of steel to apply where reinforcement steel is required in footings. The provisions for wall reinforcement in section 404 may be applied to footings, for grade of steel and lap splices, or the ACI 332 standard may be used.

SUPERSEDES: None

REQUESTED BY: Pacific County