

ORDINANCE AMENDING SECTION 500 OF THE 2021 INTERNATIONAL BUILDING CODE, CHAPTER 4 FOUNDATIONS, SECTION R403 FOOTINGS FOR THE CITY OF FORISTELL, MISSOURI, AND PROVIDING PENALTIES FOR VIOLATIONS.

BE IT ORDAINED BY THE BOARD OF ALDERMEN OF THE CITY OF FORISTELL, MISSOURI AS FOLLOWS:

Section 1: That the City of Foristell Municipal Code, Chapter 4, Foundations, Section R403 footings shall include the following language on the Design and Installation Requirements for all residential footings shall be as follows:

Footings for One- and Two-Story Single-Family Homes. One row of #4 or #5 steel horizontal rebar per every 8 inches of footing width (example: a 24-inch width footing would require 3 rows of rebar) to run parallel to the length of the footing is required. Adequate support must be provided for the rebar during the concrete pour to maintain correct positioning and ensure proper concrete cover. This support can be in the form of steel rebar chairs, spacers, or bar supports. For a one-way solid slab with #5 temperature-shrinkage bars, high chairs are used at 4 feet on center; for #4 bars, high chairs would be placed 3 feet on center.

The minimum cover for cast-in-place concrete is specified by the ACI 318 Building Code:

- For concrete cast against and permanently exposed to earth (such as footings) - **3 inches**
- For concrete exposed to weather or earth (such as basement walls)
 - #6 bars and larger - **2 inches**
 - #5 bars or smaller - **1½ inches**
- For concrete not exposed to weather or in contact with the ground:
 - slabs, walls, and joists - #14 and #18 bars - **½ inch**
- Slabs, walls, and joists -
 - #11 bars and smaller - **¾ inch**
 - Beams and columns - **1½ inches**

Reinforcement in the footing cannot be placed in the soil or hard ground as it is susceptible to corrosion. The placing of rebar above the layer of fresh concrete and then pouring more concrete is not acceptable as the position of the rebar may change while pouring of concrete.

Tie wire made of at least 16-gauge annealed wire is required to secure the steel rebar chairs in place during the pouring of concrete. Heavier reinforcement may require 15- or 14-gauge wire to hold the proper position of the rebar.

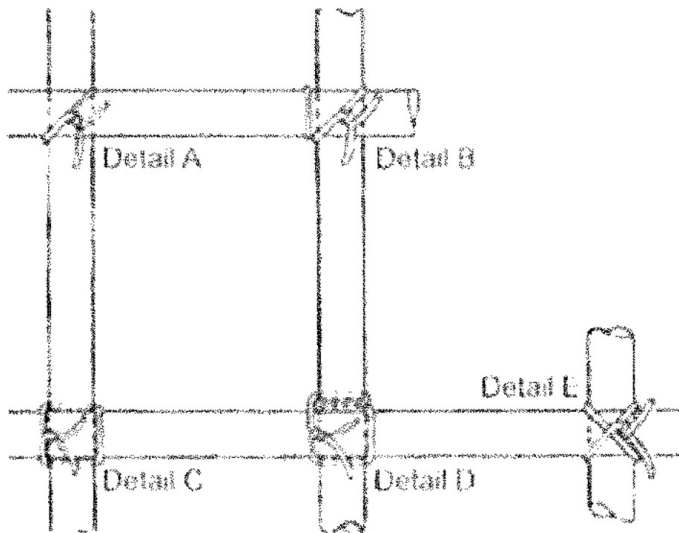


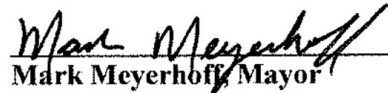
Fig 4: Acceptable Rebar Tying details.

1. **Detail A:** "Snap Tie" is the simplest and is usually used for rebar in a flat horizontal position.
2. **Detail B:** "Wrap and Snap Tie" is normally used when tying vertical wall reinforcement to hold the bars securely into place.
3. **Detail C:** "Saddle Tie" is more complicated than snap ties or wrap and snap ties. They are commonly used for securing ties to column corner bars and stirrups to beam corner bars.
4. **Detail D:** "Wrap and Saddle Tie" is similar to the saddle tie except that the wire is wrapped 1-1/2 times around the first bar, then completed like Detail C.

Detail E: "Figure Eight Tie" can be used on walls in lieu of the saddle or wrap and snap ties. This type of tie is used to secure heavy mats.

Section 2: That this ordinance shall take effect and be in force from and after its passage, as provided by law.

READ TWO TIMES AND PASSED BY THE BOARD OF ALDERMEN OF THE CITY OF FORISTELL, MISSOURI THIS 20th DAY OF MAY 2024.


 Mark Meyerhoff, Mayor

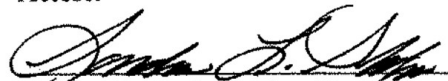
Attest:


 Sandra L. Stokes, City Clerk

APPROVED BY THE MAYOR OF THE CITY OF FORISTELL, MISSOURI THIS 20th
DAY OF MAY 2024.


Mark Meyerhoff, Mayor

Attest:


Sandra L. Stokes, City Clerk

CITY OF FORISTELL



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To Whom It May Concern:

This is to certify that the following Ordinance No. 902, an Ordinance amending Section 500 of the 2021 International Building Code, Chapter 4 Foundations, section R-403 Footings as adopted by the Board of Alderman and signed by the Mayor on May 20, 2024 is a full, true, and complete copy of the original as recorded in the office of the City Clerk of the City of Foristell, Missouri.

IN WITNESS WHEREOF, I hereunto set my hand and affix the seal of said City of Foristell, Missouri, this 21st day of May 2024.


Sandra L. Stokes, City Clerk

