

**NATURAL RESOURCES CONSERVATION SERVICE  
CONSTRUCTION SPECIFICATION**

**FENCE  
(Feet)**

**CODE 382**

**FEEDLOT FENCE (FF)**

1. Heavy Duty Standard Fence.

Standard fence requirements plus the following:

- a. Fence shall be a minimum height of 54 inches.
- b. Woven wire shall have two barbed or smooth wires spaced no more than 3 inches apart above the woven wire.
- c. High tensile non-electric shall be 10 strands with the wire spacing of 9", 5", 5", 5", 5", 5", 5", 5", 5", and 5" starting at the ground line. Tensile Strength – 170,000 psi (minimum).
- d. All posts shall be wooden with a 6-7 inch diameter top and set a minimum of 48 inches below groundline.
- e. All posts shall be spaced 8 feet apart. All wooden posts and brace members (except red cedar, osage orange, or black locust) shall be treated with a minimum of 0.40 lbs/cubic foot of chromated copper arsenate (CCA), type A, B, or C or ammoniated copper quat (ACQ) preservative by a method to ensure that complete penetration of the sapwood is obtained or has a 20-year warranty. All bark shall be removed from the red cedar, osage orange, and black locust. At least half the diameter of red cedar shall be heartwood. Quality of treated wood shall provide sufficient strength and last for the expected life of the fence.
- f. Fasteners.
  - (1) Staples shall be of 9 gauge class 3 galvanized steel or heavier with a minimum length of 1 ¾ inches for softwoods and a minimum length of 1 inch for close-grained hardwoods.
  - (2) Manufacturer's clips or 14 gauge, class 3, galvanized wire may be used to fasten wires to steel posts.
- g. Corner, end, pull, and gate assembly posts shall be wooden with a minimum top diameter of 6 inches. Assembly posts shall be a minimum of 8.5 feet long for single H-brace assemblies and 7.5 feet long for double H-brace assemblies.

Bend assembly post shall have a minimum top diameter of 5 inches and will be a minimum of 7.5 feet long.

All brace members shall be wood and the horizontal cross member centerline shall be 4 to 9 inches below top of post. Other brace material may be used with the approval of the fence designer.

The horizontal cross member shall be a minimum of 4 inches in diameter and a minimum of 7 feet in length. A tension wire composed of 2 complete loops of number 9 gauge smooth wire, or a single loop of 12 ½ gauge high tensile smooth wire shall be used. One end of the

tension wire shall be at the height of the horizontal cross brace member and the other end of the tension wire shall be 4 inches above the ground line on the other post.

A corner assembly or a bend assembly shall be used when the horizontal alignment changes more than 15 degrees and a pull assembly when the vertical alignment changes more than 15 degrees.

A bend assembly will be used only when it will not affect the integrity of the fence. Post spacing for a bend assembly can be determined by placing three stakes, each spaced 14 feet apart along the fence line. A string is then stretched between the first and third stake. A measurement is then taken from the second stake and the string. The spacing of the posts is determined as follows:

0- 4 inches	14 feet
5- 7 inches	12 feet
8-10 inches	10 feet
11-15 inches	8 feet
16 and more inches	6 feet

These bend assembly posts will be wood and set with a 6-inch lean from vertical to the outside of the curve.

## 2. Plank Fence.

The fence shall consist of 5 planks (2" x 6" nominal) spaced 6 inches apart with the bottom one near the ground line. Posts shall be 6x6 treated material spaced at 6 feet apart and set a minimum of 48 inches below ground line. The wooden posts and planks shall be treated with a minimum of 0.40 lbs/cubic foot of chromated copper arsenate (CCA). Type A, B, or C or ammoniated copper quat (ACQ) preservative by a method to ensure that complete penetration of the sapwood is obtained or has a 20 year warranty. Quality of treated wood shall provide sufficient strength and last for the expected life of the fence. Top of top board shall be 54 inches above ground line. Each board shall be attached to each post with a minimum of three 40 d. galvanized or cadmium coated nails or 4-inch long galvanized or cadmium coated decking screws. Where two planks butt together; the nail holes will be predrilled to prevent the ends from splitting.

Other materials such as guardrail, cable, etc. may be used provided they have adequate strength and durability. Written approval for these materials needs to be obtained from the fence designer and practice approval official before construction starts.