

NH FENCE CONSTRUCTION SPECIFICATIONS

VI. CHAIN LINK FENCE

1. Scope

The work shall consist of furnishing and installing chain link fence, including gates and related essential components. Unless otherwise specified, complete chain link fence systems constructed in strict accordance to manufacturer's specifications and recommendations will be accepted as an equivalent substitute to this specification.

Refer to New Hampshire NRCS Field Office Technical Guide, Section IV, Standard 382, for supplemental information.

Chain link fencing shall conform to the following requirements:

2. Chain Link Wire Fabric

Chain link wire fabric shall be a minimum of 5 feet high, 9 gauge galvanized wire with a minimum tensile strength of 1,290 lbs. Chain link fence fabric shall conform to the requirements of ASTM A392, "Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric". Fence fabric shall also have a 2-inch woven mesh. Zinc coating shall be Class 2 (ie. 2 ounces of zinc coating per square foot).

3. Posts

Posts and fence framework shall conform to the requirements of ASTM F669, "Specification for Strength Requirements of Metal Posts and Rails for Industrial Chain Link Fence", Group 1A (Schedule 40); ASTM F1043, "Standard Specification for Strength and Protective Coatings on Metal Industrial Chain Link Fence (Galvanized) Welded, for Fence Structures", as applicable. Coatings shall be Type A galvanized for both internal and external surfaces.

4. Line Posts. Shall be a minimum of 1-5/8 inch outside diameter standard (Schedule 40) steel pipe, be of sufficient length to support the height of the fence.

In Ground Posts: Shall be set in concrete to a depth of 24 inches. The concrete shall be extended a minimum of 2 inches below the pipe

Embedded Posts: The post shall be anchored to the top or side of the wall using anchor bolts, brackets, or other approved devices. Fences installed on concrete manure storage facilities will have a minimum combined height of 60 inches from ground to top wire. The preferred option for mounting the post is on the side of the concrete wall as opposed to on top of the wall due to freeze damage issues.

5. Corner, Gate and End Posts. Shall be a minimum 2-3/8 inch outside diameter standard (Schedule 40) steel pipe, be of sufficient length to support the height of the fence.

Corner, gate and end posts shall be set in concrete to a depth of 36 inches and a width

3 times the diameter of the pipe. The concrete shall extend a minimum of 2 inches below the pipe

Unless otherwise specified by the manufacturer, line posts shall be set at intervals not exceeding 10 feet, as measured from the center of each post.

All posts shall be capped immediately after installation to prevent water accumulating inside the post, unless mounted on the side of a wall.

Chain link fabric is generally installed on the outside of the fence post. The fabric shall not be attached to posts until at least 5 days after posts are set in the ground with concrete backfill. The fabric shall be stretched taut and securely fastened, using 9 gauge tie clips, to posts at intervals not exceeding 15 inches and the top rails or tension wires at intervals not exceeding 24 inches. Care shall be taken to equalize the tension on each side of each post.

Gate frames shall be fabricated and hung so that sag no more than one percent of the gate width.

6. Top Rail and Gate Frame. Shall be a minimum 1-3/8 inch outside diameter standard (Schedule 40) steel pipe).

7. Fittings and Gates. Fence fittings shall conform to the requirements of ASTM F626, "Standard Specification for Fence Fittings". Fittings shall be galvanized steel. Wire ties and clips shall be 9 gauge.