

Ameristar HT-40 Fence Framework - Industrial Weight
Construction Specifications
Section 02830 - Chain Link Fences

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Ameristar HT-40 Fence Framework - Industrial Weight

PART 1 - GENERAL

1.01 WORK INCLUDED

The contractor shall provide all labor materials and appurtenances necessary for installation of the color chain link fencing system defined herein at (specify project site).

1.02 RELATED WORK

Section 02500 - Paving and Surfacing

Section 03300 - Cast-In-Place Concrete

Section 04200 - Unit Masonry

1.03 SYSTEM DESCRIPTION

The contractor shall supply a total color coated chain link fencing system of the design, style and strength defined herein. The system shall include all components (i.e., framework, chain link fabric, gates and fittings) required.

1.04 QUALITY ASSURANCE

The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and materials and techniques specified.

1.05 REFERENCES

Specification A 924/A 924M - General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process. **Specification A 653/A 653M** - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process. **Specification F1043** - Strength and Protective Coatings on Metal Industrial Chain Link Fence Framework. **ASTM B177 Test Method** - Salt Spray (Fog) Testing. **Practice D1499**

- Operating Light- and Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Plastics.

ASTM D3359 Test Method - Measuring Adhesion by Tape Test. **Specification F668** - Poly (Vinyl Chloride) (PVC) - Coated Steel Chain Link Fence Fabric. **Specification F626** - Fence Fittings.

Specification F900 - Industrial and Commercial Swing Gates. **Specification F1184** - Industrial

and Commercial Horizontal Slide Gates. **Specification F934** - Standard Colors for Polymer Coated Chain Link Fence Materials. **Practice F567** - Installation of Chain Link Fence. **Practice F969** - Construction of Chain Link Tennis Court Fence.

1.06 SUBMITTAL

The manufacturer's literature shall be submitted prior to installation.

1.07 PRODUCT HANDLING AND STORAGE

Upon receipt at the job site, all materials shall be checked to ensure that no damages occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage and to protect against damage, weather, vandalism and theft.

PART 2 - MATERIALS

2.01 MANUFACTURER

Framework for color chain link fencing Systems shall conform to Ameristar® Pipe, commercial weight HT-40, as manufactured by Ameristar Fence Products in Tulsa, Oklahoma.

2.02 MATERIAL

- A.** The material used to manufacture framework for color chain link fencing systems shall be galvanized sheet steel, in coils, meeting the general requirements of Specification A924 and the specific product requirements of Specification A653, Quality level HSLA (high-strength, low-alloy), Type I, Grade 50 (50,000 psi minimum yield strength), Coating Designation G-90 (.90 oz/ft²), Hot Dip Process. The framework shall be manufactured in accordance with commercial standards to meet the strength requirements (50,000 psi minimum yield strength) of Specification F1043, Group IC, Electrical Resistance Welded Round Steel Pipe. The manufactured framework shall be subjected to a complete thermal stratification coating process (multi-stage, high-temperature, multi-layer) including, as a minimum, a six-stage pretreatment/wash (with zinc phosphate), an electrostatic spray application of an epoxy base, and a separate electrostatic spray application of a polyester finish. The material used for the base coat shall be a zinc-rich (gray color) thermosetting epoxy; the minimum thickness of the base coat shall be 2 mils. The material used for the finish coat shall be a thermosetting "no-mar" TGIC polyester powder; the minimum thickness of the finish coat shall be 2-3 mils. The stratification coated framework shall demonstrate the ability to endure a salt spray resistance test conducted in accordance with ASTM B117 Test Method without loss of adhesion for a minimum exposure time of 3,500 hours. Additionally, the coated framework shall demonstrate the ability to withstand exposure in a weatherometer apparatus for 1,000 hours without failure in accordance with Practice D1499 and to show satisfactory adhesion when subjected to the cross-hatch test, Method B, in Test Method D3359. The polyester finish coat shall not fade, crack, blister or split under normal use.
- B.** The material for chain link fence fabric shall be manufactured from galvanized steel wire. The weight of zinc shall meet the requirements of Specification F668, Table 4. Galvanized wire shall be PVC coated to meet the requirements of Specification F668. Select from Class 1 (Extruded), Class 2A (Extruded and Bonded) and Class 2B (Fused and Bonded).
- C.** The material for fence fittings shall be manufactured and coated to meet the requirements of Specification F626.
- D.** Swing gates shall be manufactured and coated to meet the requirements of Specification F900. Slide gates shall be manufactured to meet the requirements of Specification F1184.
- E.** The color of all manufactured materials shall be (specify green, brown or black) in accordance with Specification F934.

2.03 FABRICATION

Terminal posts, line posts and top/bottom rails shall be precut to specified lengths.

PART 3 - EXECUTION

3.01 PREPARATION

All new installation shall be laid out by the contractor in accordance with the construction plan.

3.02 INSTALLATION

Install chain link fence in accordance with Practice F567. For chain link tennis court fences, install in accordance with Practice F969. Fence posts shall beset at spacings of a maximum of 10' o.c. Gate posts shall be spaced according to the gate openings specified in the construction plans. The "Paving and Surfacing", "Cast-In-Place Concrete" and "Unit Masonry" sections of this specification shall govern post base placement and material requirements. Install fabric on security side and attach with wire ties or clip to line posts at 15 inches o.c. and to rails, braces and tension wire at 24 inches o.c.

3.03 CLEANING

The contractor shall clean the jobsite of excess materials. Post hole excavations shall be scattered uniformly away from posts.

HT-40 Applications

- Athletic Facilities (i.e. Tennis Courts, Baseball Diamonds)
- Industrial Plant Facilities
- Government Facilities
- Department of Transportation
- Airports
- Schools