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HALCO®**

# ZINC COATED (GALVANIZED) STEEL CHAIN LINK FENCE FABRIC

ASTM A392, Federal Specification RR-F-191/1F Type I, AASHTO M-181 Type I

**Product Name:** Zinc Coated (Galvanized) Steel Chain Link Fence Fabric.

**Basic Use:** Zinc coated (galvanized) steel chain link fence fabric for industrial, commercial, recreational and institutional applications. Zinc coated fabric is contained in local, state and federal government specifications for use in prison, road, dock, airport, housing, forestry, and military use.

**Composition and Material:** Zinc coated steel chain link fence fabric is produced by cold drawing good commercial grade steel rod into wire of the appropriate diameter. The steel rod from which the wire is drawn is produced by the open hearth, electric furnace or basic oxygen process.

The zinc coating may be applied before weaving into fabric (GBW) or after weaving into fabric (GAW). Galvanized before weaving (GBW) – The wire is cleaned, passed through a bath of molten zinc, and then woven into chain link fabric. Galvanized after weaving (GAW) - The uncoated wire is woven into chain link fence fabric of the appropriate height and mesh size. The coating is produced by passing the woven mesh through a continuous line which includes cleaning of the fabric. After cleaning, the fabric passes through a molten bath of zinc metal to produce the galvanized coating. Zinc used to produce the coating conforms to the requirements of ASTM specification B6.

**Standards:**

ASTM A392 Type 1 – Zinc-Coated Steel Chain Link Fence Fabric

ASTM F567 – Installation of Chain Link Fence

ASTM A817 – Metallic-Coated Wire for Use in Chain Link Fence

ASTM B6 – Zinc (Slab Zinc)

Federal Specification RR-F-191K/1F Type 1 Fencing, Wire and Post Metal (Chain-Link Fence)

AASHTO M-181 Chain Link Fence, Type 1

**Technical Data:**

**General:** The manufacturer, if requested, will supply samples and certification that all materials furnished comply with the appropriate specifications.

**Chain Link Fence Fabric:** The base metal of the chain link fence fabric is composed of commercial quality, medium carbon wire. The weight of the zinc coating, wire sizes with allowable variances, and wire breaking strength, as shown in Table 1, conform to ASTM A 817 for the wire size specified. The fabric is zinc coated after weaving (GAW) or before weaving (GBW).

**Coating Weight:** Zinc coated (galvanized) steel chain link fence fabric conforming to ASTM A 392 and other specifications referenced above is available in two coating classes with the following minimum weights :

Class 1 – 1.2 oz/sq ft (366 g/ sq meter)

Class 2 – 2.0 oz/sq ft (610g/ sq meter)

GAW is available in either class. Fabric woven with mesh size less than 1-1/4" is only available in GBW.

**Sizes:** Galvanized fabric is available in mesh sizes from 3/8" to 2 1/8" (nominal 2-1/4"), and in standard heights from 36" to 144". Unless otherwise specified, chain link fence fabric woven with a 2" mesh and 60" or less in height is knuckled at both selvages. For fabrics 72" and taller, the selvage is knuckled at one edge and twisted at the other. All fabrics woven into mesh sizes under 2" are knuckled at both selvages.

**Installation:** Install fence in accordance with ASTM Practice 567.

**Maintenance:** Periodic inspection is recommended but no routine maintenance is required.

# SPECTRA POLY (VINYL CHLORIDE) (PVC) COATED STEEL CHAIN LINK FENCE FABRIC

EXTRUDED

ASTM A392, Federal Specification RR-F-191/1E Type I, AASHTO M-181 Type I

**Table 1 - Zinc Coated Wire Characteristics**

Nominal Coated Wire Diameter			Allowable Variance		Zinc Coating Weight, min.				Breaking Strength, minimum	
					Class 1		Class 2			
Gage	Inch	mm	Inch	mm	Oz/ft <sup>2</sup>	g/m <sup>2</sup>	Oz/ft <sup>2</sup>	g/m <sup>2</sup>	lbf	Newtons
6	0.192	4.88	±0.005	±0.13	1.2	366	2.00	6.10	2,170	9,650
9	0.148	3.76	±0.005	±0.13	1.2	366	2.00	6.10	1,290	5,740
11	0.120	3.05	±0.005	±0.13	1.2	366	---	---	850	3,780

**Table 2 - Zinc Coated Chain Link Fabric Recommendations**

Mesh Sizes Available	Nominal Coated Wire Size	Recommended Use	Standard Heights of Fence Fabric
			inch
2-1/8"	11-1/2"	Residential	48" - 72"
2"	11	Residential/Light Commercial	36" - 144"
2"	9	Residential, Commercial, Industrial	36" - 144"
2"	6	Commercial, Industrial, Security	36" - 144"
1-3/4"	9	Heavy Commercial, Industrial	120" - 144"
1-3/4"	11	Tennis Court	120" - 144"
1-1/4"	11	Residential, Swimming Pool	36" - 144"
1-1/4"	9	Industrial	36" - 144"
1"	11	Heavy Industrial, Security	36" - 144"
1"	9	Security	36" - 144"
3/4"	11, 9	Heavy Security, Anti-Climb	36" - 144"
5/8"	11, 9		36" - 144"
1/2"	11, 9		36" - 144"
3/8"	11, 9		36" - 144"

Data from Chain Link Fence Manufacturers Institute  
CLFMI Product Manual: CLF-PM0610 (updated March 2017)

**Notes to tables:**

- (1) Breaking strength (table 1) based on a minimum tensile strength of 75,000 psi.
- (2) Fabric with mesh size less than 1-1/4" is galvanized before weaving (GBW).
- (3) Chain-link fabric shall be furnished in the standard heights shown in Table 2. Custom order fabric is available in heights from 18" to and including 240" .