

# Zinc Coated (Galvanized) Steel Chain Link Fence Fabric

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

## 1. PRODUCT NAME

Zinc Coated (Galvanized) Steel Chain Link Fence Fabric

## 2. MANUFACTURER

**Merchants Metals**

**Manufacturing Locations:**

### Statesville, NC 28677

165 Fanjoy Road

Phone: (800) 438-7016

Fax: (704) 873-1313

### Houston, TX 77093

4901 Langley Road

Phone: (800) 723-3623

Fax: (713) 697-5806

### Mexicali, CP

Circuito Las Misiones Este #137

Mexicali, CP 211394

Phone: 011-52-686-906-8900

Fax: 011-52-686-592-1193

## 3. PRODUCT DESCRIPTION

### Basic Use:

Zinc coated (galvanized) steel chain link fence fabric for commercial, industrial, institutional and recreational applications.

Zinc coated fabric is contained in various government specifications for use in prison, road, dock, airport, housing, forestry, and military uses.

### Composition and Materials:

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 Zinc-Coated Steel Chain Link Fence Fabric

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

ASTM B6 Zinc (Slab Zinc)

ASTM F567 Installation of Chain Link Fence

Federal specification RR-F-191/1F Chain Link Fabric, Type I

American Association of State

Highway Transportation Officials

(AASHTO) M-181 Chain Link Fence,

Type 1

## 4. TECHNICAL DATA

### General:

The manufacturer, if requested, will supply samples and certification that all materials 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 zinc coating, wire sizes with allowable variances, and wire breaking strength, as shown in **Table 1**, conform to ASTM A817 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 A392 and other specifications referenced above is available in two coating classes with the following minimum coating weights:

Class 1 - 1.2 oz/ft<sup>2</sup> (366 g/m<sup>2</sup>)

Class 2 - 2.0 oz/ft<sup>2</sup> (610 g/m<sup>2</sup>)

GAW is available in either class. GBW is limited to Class 1 due to the limited availability of galvanized wire with a Class 2 coating. Fabric woven from 11 ga. wire and fabric woven in mesh sizes less than 1-3/4 in. are GBW.

### Sizes:

Galvanized fabric is available in mesh sizes from 3/8 in. to 2 in. (10 mm to 50 mm), and in heights from 36 inches to 144 inches (910 mm to 3,660 mm).

### See Table 2.

Unless otherwise specified, chain link

fence fabric woven with a 2 in. (50 mm) mesh and 60 inches (1,520 mm) or less in height is knuckled at both selvages; for fabrics 72 inches (1,830 mm) and above the selvages are knuckled at one edge and twisted at the other. All fabrics woven into mesh sizes under 2 in. are knuckled at both selvages.

## 5. INSTALLATION

Install chain link fence fabric in accordance with ASTM Practice F567.

## 6. AVAILABILITY AND COST

### Availability:

Zinc coated steel chain link fence fabric is available for shipment throughout the United States and worldwide.

### Cost:

Material costs may vary depending on specific requirements. Costs may be obtained through all Merchants Metals Service Centers

## 7. WARRANTY

Class 2 galvanized steel chain link fence fabric is warranted for 20 years against failure due to rust or corrosion. Class 1 galvanized steel chain link fence fabric is warranted for 15 years against failure due to rust or corrosion.

## 8. MAINTENANCE

Periodic inspection is recommended but no routine maintenance is required

## 9. TECHNICAL SERVICES

Specifications, drawings and other technical services are available through the Merchants Metals Technical Sales Department or your local Merchants Metals Service Center.

Technical Sales Department:

Email: [Tech-Info@merchantsmetals.com](mailto:Tech-Info@merchantsmetals.com)

Website: [www.merchantsmetals.com](http://www.merchantsmetals.com)



**Merchants Metals**<sup>®</sup>

*the first name in fence solutions*

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# Zinc Coated (Galvanized) Steel Chain Link Fence Fabric

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Table 1 – Zinc Coated Wire Characteristics

Nominal Coated Wire Diameter			Allowable Variance		Zinc Coating Weight, minimum				Breaking Strength, minimum	
					Class 1		Class 2			
gauge	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	1.20	366	2.00	610	2,170	9,650
9	0.148	3.76	±0.005	±0.13	1.20	366	2.00	610	1,290	5,740
11	0.120	3.05	±0.005	±0.13	1.20	366	---	---	850	3,780

Table 2 – Zinc Coated Chain Link Fabric Characteristics

Recommended Use	Mesh Sizes Available		Nominal Coated Wire Size, gauge	Height of Fence Fabric inch (mm)
	inch	mm		
Industrial/Commercial	2 in.	50	6	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
			9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
			11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
Industrial/Security	1 in.	25	6	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
			9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
Security	1 in.	25	9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	1 in.	25	11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	¾ in.	19	9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	¾ in.	19	11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	⅝ in.	16	9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	⅝ in.	16	11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	½ in.	13	9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
	½ in.	13	11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
Tennis Court	1 ¾ in.	44	9	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)
			11	36 (910), 42 (1,070), 48 (1,220), 60 (1,520), 72 (1,830), 84 (2,130), 96 (2,440), 108 (2,740), 120 (3,050), 144 (3,660)

Notes to tables: (1) Red text indicates conformance with ASTM A392.

(2) Breaking strength (Table 1) based on a minimum tensile strength of 75,000 psi.

(3) 11 ga. fabric available with a Class 1 coating only.

(4) Fabric with mesh size less than 1-¾ in. is galvanized before weaving.

Fabrics with other characteristics may be available. Contact the Merchants Metals Technical Sales Department or a Merchants Metals Service Center with specific requests.

Technical Sales Department:  
 Email: Tech-Info@merchantsmetals.com  
 Website: www.merchantsmetals.com