

Zinc Coated (Galvanized) Steel Chain Link Fence Fabric

ASTM A 392, Federal Specification RR-F-191 Type 1, AASHTO M-181 Type 1

1. PRODUCT NAME

Zinc Coated (Galvanized) Steel Chain Link Fence Fabric

2. MANUFACTURER

Brenton Manufacturing
5886 S. Okepa Rd.
Casper, WY 82604

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) 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 A 392 Zinc-Coated Steel Chain Link Fence Fabric
ASTM F567 Installation of Chain Link Fence
ASTM A 817 Metallic-Coated Wire for Use in Chain Link Fence
ASTM B6 Zinc (Slab Zinc)

Federal Specification RR-F-191 Type I, Fencing, Wire, and Post Metal (Chain Link Fence Fabric)
American Association of State Highway Transportation Officials M-181 Chain Link Fence, Type I

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 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 before weaving (GBW) or after weaving (GAW).

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 – 1.2oz/ft² (366 g/m²)
Class 2 – 2.0oz/ft² (610 g/m²)

GAW and GBW are available in either class. Fabric woven with 11 Gauge and larger wire with mesh sizes less than 1-3/4" must be made with the GBW wire process.

Sizes:

Galvanized fabric is available in mesh sizes from 3/8" to 2" (10mm to 50mm), and in heights from 36" to 240" (910mm to 6,100mm). See **Table 2**.

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

5. Installation

Install chain link fence fabric in accordance with **ASTM Practice 567**.

6. Availability & Cost

Availability:

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

Cost:

Material costs may vary depending on specific requirements. Costs may be obtained by calling Brenton Manufacturing or one of their stocking dealers.

7. Warranty

Class 2 galvanized steel chain link fence 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

Brenton Manufacturing
5142 Reserve Dr.
Evansville, WY 82636
307-277-5937

Brenton Manufacturing

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Table 1 – Zinc Coated Wire Characteristics

Nominal Coated Wire Diameter			Allowable Variance		Zinc Coating Weight, Min				Breaking Strength Minimum	
					Class 1		Class 2			
Gauge	Inch	Mm	Inch	mm	oz/ft ²	g/m ²	oz/ft ²	g/m ²	lbf	Newtons
6	0.192	4.88	±0.0005	±0.13	1.20	3.66	2.00	610	2170	9650
9	0.148	3.76	±0.0005	±0.13	1.20	3.66	2.00	610	1290	5740
11	0.120	3.05	±0.0005	±0.13	1.20	3.66	2.00	610	850	3780

Table 2 – Zinc Coated Chain Link Fabric Characteristics

Recommended Use	Mesh Size Available		Nominal Wire Gauge	Height of Fence Fabric	
	Inch	mm		Inch (mm)	
Industrial / Commercial	2"	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),168(4,270),192(4,880),216(5,490),240(6,100)	
			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),168(4,270),192(4,880),216(5,490),240(6,100)	
			10	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),168(4,270),192(4,880),216(5,490),240(6,100)	
			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),168(4,270),192(4,880),216(5,490),240(6,100)	
Industrial / Security	1"	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),168(4,270),192(4,880),216(5,490),240(6,100)	
			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),168(4,270),192(4,880),216(5,490),240(6,100)	
Security	1"	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),168(4,270),192(4,880),216(5,490),240(6,100)	
	1"	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),168(4,270),192(4,880),216(5,490),240(6,100)	
	3/4"	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),168(4,270),192(4,880),216(5,490),240(6,100)	
	3/4"	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),168(4,270),192(4,880),216(5,490),240(6,100)	
	5/8"	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),168(4,270),192(4,880),216(5,490),240(6,100)	
	5/8"	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),168(4,270),192(4,880),216(5,490),240(6,100)	
	1/2"	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),168(4,270),192(4,880),216(5,490),240(6,100)	
	1/2"	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),168(4,270),192(4,880),216(5,490),240(6,100)	
	3/8"	10	10	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),168(4,270),192(4,880),216(5,490),240(6,100)	
Tennis Court	3/8"	10	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),168(4,270),192(4,880),216(5,490),240(6,100)	
	1-3/4"	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),168(4,270),192(4,880),216(5,490),240(6,100)	
			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),168(4,270),192(4,880),216(5,490),240(6,100)	

Notes to tables:

1. Breaking strength (Table 1) is based on a minimum tensile strength of 75,000 psi.
2. Fabric with a mesh size of less than 1-3/4" is Galvanized Before Weaving (GBW).
3. Chain Link fabric shall be furnished in the heights shown in Table 2 ranging from 36" to 144". Please contact your salesman to inquire into all heights above 144".