

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

Southwestern Wire, Inc.
3505 N. Interstate Dr.
Norman, OK 73070
1-800-348-9473 1-405-447-6900
FAX: 405-447-2830
Email: Sales@southwesternwire.com
URL: <http://www.southwesternwire.com>

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 quality 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): In a continuous line the wire is cleaned then drawn through a bath of molten zinc. The wire is then passed through various types of wiping stations to produce an even coating around the entire surface of the wire. The wire is then woven into chain link fabric of the appropriate height and mesh. GBW fabric is free and flexible at all joints.

Galvanized after weaving (GAW): The uncoated wire is woven in 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:

ASTMA 392 Zinc-Coated Steel Chain Link Fence Fabric
ASTM F567 Installation of Chain Link Fence
ASTMA 817 Metallic-Coated Wire for Use in Chain Link Fence
ASTM B6 Zinc (Slab Zinc) Federal specification RR-F-191K/1D
Type 1, Fencing, Wire and Post Metal (Chain-Link Fence Fabric)
American Association of State Highway Transportation Officials
M-181 Chain Link Fence, Type 1

4. TECHNICAL DATA

General:

The manufacturer, if requested, will supply samples and certification that all materials furnished fully 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 2**, 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 (366 g/m)
Class 2 – 2.0 oz/ft (610 g/m)

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 process.

Sizes:

Galvanized fabric is available in mesh sizes from 3/8 in. to 2 in. (10 mm to 50mm), and in heights form 36 inches to 240 inches (910 mm to 6,100 mm). See **Table 1**.

Unless otherwise specified, chain link fence fabric woven with a 2 inch (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 567.

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 by calling Southwestern Wire, Inc. or one of their stocking dealers.

7. WARRANTY

Class 2 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

Technical services are available at Southwestern Wire, Inc. by calling 1-800-348-9473.



Technical Specifications

Zinc Coated (Galvanized) Steel Chain Link Fence Fabric ASTM A 392, Federal specification RR-F-191 Type 1, AASHTO M-181 Type 1

Recommended Use	Mesh Sizes		Nominal Wire gauge	Height of Fence Fabric	
	Available			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)	
			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)	
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)	
			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)	
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)	
			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)	
			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)	
			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)	
Tennis Court	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)	
			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: Red text indicates conformance with ASTM A-491
Fabric with other characteristics may be available. Contact the Sales Department at 1-800-348-9473

Nominal Coated Wire			Allowable Variance		Zinc Coating Weight, m in.				Breaking Strength	
Gauge	Diameter		Inch	mm	Class 1		Class 2		minimum	
	Inch	mm			oz/ft2	g/m2	oz/ft2	g/m2	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	2.00	610	850	3,780

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

