

ZINC-COATED (GALVANIZED) STEEL CHAIN LINK FENCE FABRIC (GAW/GBW)

ASTM A392
FEDERAL SPECIFICATION RR-F191/1F TYPE 1
AASHTO M-181 TYPE 1

PRODUCT NAME

Zinc-Coated (Galvanized) Steel Chain Link Fence Fabric.

BASIC USE

Zinc-coated (galvanized) steel chain link fence fabric for industrial, commercial 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 a 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 Galvanized Before Weaving (GBW) or after weaving into fabric Galvanized After Weaving (GAW). The wire is cleaned, passed through a bath of molten zinc and woven into chain link fabric.

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 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 A817 for the wire size specified. The fabric is zinc-coated after weaving or before weaving.

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 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. GBW is limited to Class 1 due to the limited availability of galvanized wire with a Class 2 coating. Fabric woven with a mesh size less than 1 in. is only available in GBW.

SIZES

Galvanized fabric is available in mesh sizes from 3/8 in. to 2-3/8 in., and in heights from 18 in. to 240 in. Unless otherwise specified, chain link fence fabric woven with a 2 in. mesh and 60 in. or less in height is knuckled at both selvages. For fabrics 72 in. and taller, the selvage is knuckled at one edge and twisted at the other. All fabrics woven into mesh sizes under 2 in. 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.

TECHNICAL SERVICES



Jamieson Fence Supply
 Technical Sales Department
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TABLE 1 – ZINC-COATED WIRE CHARACTERISTICS

NOMINAL COATED WIRE DIAMETER			ALLOWABLE VARIANCE		ZINC COATING WEIGHT, MIN.				BREAKING STRENGTH, MIN.	
					CLASS 1		CLASS 2			
GAGE	INCH	MM	INCH	MM	OZ/FT ²	G/M ²	OZ/FT ²	G/M ²	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 CHARACTERISTICS

RECOMMENDED USE	MESH SIZES AVAILABLE	NOMINAL COATED WIRE SIZE, GAGE	HEIGHT OF FENCE FABRIC INCH
	INCH		
Industrial/Commercial	2"	6	36" – 144"
		9	36" – 144"
		11	36" – 144"
Industrial/Security	1"	6	36" – 144"
		9	36" – 144"
Security	1"	9	36" – 144"
		11	36" – 144"
	3/4"	9	36" – 144"
		11	36" – 144"
	5/8"	9	36" – 144"
		11	36" – 144"
	1/2"	9	36" – 144"
		11	36" – 144"
3/8"	11	36" – 144"	
	11	36" – 144"	
Tennis Court	1 3/4"	9	36" – 144"
		11	36" – 144"

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 less than 1 in. is galvanized before weaving.
- (3) Chain-link fabric shall be furnished in the standard heights shown in Table 2. Custom order fabric is available in heights to and including 240 in.