

Aluminized Steel Chain Link Fence Fabric

ASTM A 491, Federal Spec RR-F-191/1E & AASHTO M-181 Type II

1. PRODUCT NAME

Aluminum Coated steel Chain Link Fence Fabric also known as **Aluminized**.

2. MANUFACTURER

Richard's Fence Company, 1600 Firestone Pkwy, Akron, OH 44301 800-624-5520.

3. PRODUCT DESCRIPTION

Basic Use:

Aluminized chain link fence fabric is suitable for industrial, commercial, and institutional applications where the additional corrosion resistance is desired. Aluminized fence fabric is often required by local, state and federal government specifications for use in prison, road, dock, airport, housing, forestry and military applications.

Composition and Materials:

The core wire is cold drawn from commercial grade medium/low carbon steel rod to the appropriate diameter. The steel rod from which the wire is drawn shall be produced by the open hearth, electric furnace or basic oxygen process.

The coating is produced by passing the cleaned wire through a molten bath of aluminum metal. Aluminum metal ingots used to produce the coating shall have no more than the following maximum levels of impurities:

Copper - 0.10% maximum Cu
Iron - 0.50% maximum Fe

The wire is then woven into chain link fence fabric to the mesh size, height and selvage as required by the end user.

Standards:

ASTM A 491 Aluminum Coated Steel Chain Link Fence
ASTM F567 Installation of Chain Link Fence
ASTM A 817 Metallic Coated Wire for Use in Chain Link Fence
Federal Specification RR-F-191K/1E Type II Fencing, Wire and Post Metal (Chain-Link Fence Fabric)

American Association of State Highway Transportation Officials (AASHTO) - 181 Chain Link Fence, Type II

4. TECHNICAL DATA

General:

The Manufacturer, if requested, will supply samples and certification that all material 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 aluminum steel wire. The wire is coated with aluminum to produce a smooth and uniform coating. The weight of aluminum coating, wire sizes with allowable variances, and wire breaking strength, as shown in **Table 2**, conform to ASTM A 817 for the wire sized specified. The wire is aluminum coated before weaving.

Sizes:

Aluminized fabric is available in mesh sizes from 3/8" to 2" (10mm to 50mm), and in heights from 18" to 264" (457mm to 6,700mm). Not all mesh sizes are available in all heights. See **Table 1**.

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

5. INSTALLATION

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

6. AVAILABILITY AND COST

Aluminized steel chain link fence fabric is available for shipment throughout the United States and worldwide. Material costs may vary depending on specific requirements. Costs may be obtained by calling Richard's Fence Company or one of their dealers.

7. WARRANTY

Aluminized steel chain link fence fabric is warranted for 25 years against failure due to rust or corrosion. Note: ASTM specification A 491 and other major specifications state that discoloration or rust on the cut ends of aluminum coated fabric at selvages are not cause for rejection.

8. MAINTENANCE

Periodic inspection is recommended but no routine maintenance is required.

9. TECHNICAL SERVICES

Technical services are available are available from Richard's Fence at 800-624-5520.

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Table 1 - Aluminized Chain Link Fabric Sizes

Mesh Size		Finish Wire Gauge	Fabric Height Inch (mm)	Fabric Selvage K-knuckled, T-Twist	Roll Size	
2"	50mm	6, 9, or 11	18-264(457-6,700)	KK, KT or TT	50'	15.24 m
1-3/4"	44mm	6, 9 or 11	18-264(457-6,700)	KK only	25'	7.62 m
1"	25mm	6, 9 or 11	18-144(457-3,660)	KK only	25'	7.62 m
Maximum Security Mesh						
3/4"	19mm	9,11,12 or 12.5	18-144(457-3,660)	KK only	25'	7.62 m
5/8"	16mm	9,11,12 or 12.5	18-144(457-3,660)	KK only	25'	7.62 m
1/2"	13mm	9,11,12 or 12.5	18-144(457-3,660)	KK only	25'	7.62 m
3/8"	10mm	11, 12 or 12.5	18-144(457-3,660)	KK only	request	request

Fabric with other characteristics may be available. Contact Richard's Fence Company with specific requests.

Table 2 - Aluminum Coated Wire Characteristics

Zinc Coated Core Wire Size			Allowable Wire Variance		Aluminum Coating Weight		Breaking Strength, Minimum		Tensile Strength, Minimum	
ga	inch	mm	inch	mm	oz/ft ²	g/m ²	lbf	N	ksi	MPa
6	0.192	4.88	±.005	±0.13	0.4	122	1,290	5,740	75	515
9	0.148	3.76	±.005	±0.13	0.4	122	1,290	5,740	75	515
11	0.12	3.05	±.005	±0.13	0.35	107	850	3,780	75	515
12	0.105	2.6	±.005	±0.13	0.35	107	650	1,290	75	515
12.5	0.098	2.5	±.005	±0.13	0.35	107	620		75	515