

RR-W-370B
October 30, 1970
SUPERSEDING
Fed. Spec. RR-W-370A
April 6, 1967

FEDERAL SPECIFICATION

WIRE FABRIC,
STEEL, HOT-DIPPED GALVANIZED

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

1. SCOPE AND CLASSIFICATION

1.1 Scope. This specification covers galvanized wire fabric, commercially known as hardware cloth.

1.1.1 Federal specification coverage. This Federal specification does not include all meshes and wire diameters of the commodity as indicated by the title of the specification or which are commercially available, but is intended to cover only those meshes and wire diameters generally used by the Federal Government.

1.2 Classification. Wire fabric shall be furnished in the following meshes, as specified (see 6.2 and 6.3):

Meshes Per Inch

1/2 by 1/2
1/2 by 1
1 by 1
1 by 2
2 by 2
3 by 3
4 by 4
8 by 8

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposal form a part of this specification to the extent specified herein:

FSC 5335

RR-W-370B

Military Standards:

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
- MIL-STD-129 - Marking for Shipment and Storage.
- MIL-STD-130 - Identification Marking of U. S. Military Property.
- MIL-STD-147 - Palletized and containerized Unit Loads, 40 Inch x 48 Inch Pallets, Skids, Runners, or Pallet Type Base.

(Copies of Military Specifications and Standards required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply.

American Society for Testing and Materials (ASTM) Standard.

B6 - Zinc Metal (Slab Zinc).

(Application for copies should be addressed to the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA. 19103.)

Uniform Classification Committee, Agent:

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classification Committee, Tariff Publishing Officer, Room 202 Union Station, 516 W. Jackson Blvd., Chicago, Illinois 60606.)

National Motor Freight Traffic Association, Incorporated, Agent:

National Motor Freight Classification.

(Application for copies should be addressed to the National Motor Freight Traffic Association, Inc., Agent, 1616 P Street N.W., Washington, D.C. 20036.)

3. REQUIREMENTS

3.1 Description. Wire fabric shall be of wire woven or welded into squares. Mesh size, wire size, and weight, after galvanizing shall conform to table I. Wire fabric, 2 by 2 meshes per inch may be either woven or welded.

3.2 Material. Wire shall be of carbon steel.

3.3 Galvanizing. Galvanizing shall be accomplished after wire has been woven or welded into fabric, and shall conform to ASTM B6, grade Prime Western.

Table I. Mesh size, wire size, and weight

| Mesh Per Inch[1] | Wire Diameter Bare[2] (Inch) | Minimum Weight After Zinc Coating[3] (lb/100 sq. ft.) |
|---------------------|---------------------------------|---|
| 1 by 2 (welded) | 0.0800 | 33 |
| 1 by 2 (welded) | .0625 | 20 |
| 1 by 1 (welded) | .0625 | 28 |
| 1/2 by 1 (welded) | .0625 | 38 |
| 1/2 by 1/2 (welded) | .0625 | 52 |
| 2 by 2 (welded) | .0410 | 25 |
| 2 by 2 (woven) | .0410 | 29 |
| 3 by 3 (woven) | .0317 | 28 |
| 4 by 4 (woven) | .0258 | 27 |
| 8 by 8 (woven) | .0173 | 24 |

[1] Tolerance in mesh count warp plus or minus 2 percent. Tolerance in mesh count filler plus or minus 5 percent.

[2] Commercial tolerance shall apply.

[3] Tolerance plus or minus 10 percent.

3.4 Splicing. Splices not more than 1-1/2 inches long, and with no projecting ends (tails), shall be permitted at any point of any individual wire if the number of splices does not exceed 30 in any roll or two in any square foot.

3.5 Rolls. The wire fabric shall be furnished in rolls. Widths of rolls shall be 24, 30, 36, or 48 inches as specified (see 6.2). Unless otherwise specified (see 6.2), length of rolls shall be 100 feet. No roll shall contain more than two pieces, and no single piece shall be less than 10 linear feet.

RR-W-370B

3.5.1 Tolerance. Tolerance in roll width shall be plus or minus 1/4 inch. Tolerance in roll length shall be minus 4 inches.

3.6 Selvage edges. Both edges of the cloth shall be selvaged.

3.7 Identification marking. The rolls shall be identified in accordance with MIL-STD-130.

3.8 Workmanship. Wire fabric shall have smooth edges, be free of tears and projecting tails. Zinc coating shall be smooth and free of bare spots and lumps.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

4.1.1 Lot. For purpose of examination, a lot shall consist of all wire fabric of the same mesh size, wire size, and width submitted for inspection at one time.

4.2 Sampling. Sampling for examination shall be in accordance with MIL-STD-105, inspection level S-4.

4.3 Examination. Samples selected in accordance with 4.2 shall be examined for the following defects. AQL shall be 4 percent defective.

101. Meshes not as specified.
102. Wire diameter not as specified.
103. Galvanizing not as specified.
104. Roll width and length not as specified.
105. Weight not as specified.
106. Identification marking missing or incomplete.
107. Workmanship not as specified.
108. Selvage edges omitted.

4.4 Inspection of preparation for delivery.

4.4.1 Quality conformance inspection of pack.

4.4.1.1 Unit of product. For the purpose of inspection, a completed pack prepared for shipment shall be considered a unit of product.

4.4.1.2 Sampling. Sampling for examination shall be in accordance with MIL-STD-105.

4.4.1.3 Examination. Samples selected in accordance with 4.4.1.2 shall be examined for the following defects. AQL shall be 2.5 percent defective.

109. Wire fabric not palletized when required as specified for level A or C.

110. Marking illegible, incomplete or incorrect for level A or C.

5. PREPARATION FOR DELIVERY

5.1 Packing. Packing shall be level A or C as specified (see 6.2).

5.1.1 Level A. Wire fabric shall be furnished in compact rolls securely fastened to prevent loosening during shipment and storage.

5.1.2 Level C. Wire fabric shall be prepared for shipment to assure carrier acceptance and safe delivery to destination at lowest rates complying with Uniform Freight Classification rules or National Motor Freight Classification rules.

5.2 Palletization. Wire fabric packed as specified in 5.1.1 shall be palletized in accordance with MIL-STD-147, load type XIII, when material for domestic shipment exceeds two pallet loads or for overseas shipments exceed one pallet load.

5.3 Marking. The addition to any special marking required by the contract or order, wire fabric and pallet loads shall be marked in accordance with MIL-STD-129.

6. NOTES

6.1 Intended use. This hardware cloth is intended for use as sand screens, foundry riddles, window guards, wire lathing filters, and screen for protection against rodents.

RR-W-370B

6.2 Ordering data. Purchasers should select the preferred options permitted herein, and including the following information in procurement documents:

- (a) Title, number, and date of this specification.
- (b) Mesh of hardware cloth required (see 1.2).
- (c) Width of hardware cloth required (see 3.5).
- (d) Length of roll required if other than as specified in 3.5.
- (e) Level of packing required (see 5.1 and 6.4).

6.3 Classification changes. The following meshes for wire fabric not in the previous edition of this specification, have been added to this revision:

1/2 by 1/2
1/2 by 1
1 by 1
1 by 2

6.4 For civil agency procurements. When level B packing is required for civil agency procurements, the requirements in 5.1, level A packing shall apply.

MILITARY INTEREST

CIVIL AGENCIES INTEREST:

Custodians:

GSA - HEW
JUS

Army - ME
Navy - YD
Air Force - 82

User activity:

Navy - MC

Preparing activity:

Army - ME

Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See Section 2 of this specification to obtain copies and other documents referenced herein. Price 10 cents each.