



Designation: C 847 – 95 (Reapproved 2000)

Standard Specification for Metal Lath¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope *

1.1 This specification covers sheet lath, expanded metal lath, diamond mesh, flat and self-furring, and rib metal lath, $\frac{1}{8}$ and $\frac{3}{8}$ in. (3.2 and 9.6 mm), all with or without backing and designed to be used as a base for gypsum or portland cement plaster.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values in parentheses are for information only.

2. Referenced Documents

2.1 ASTM Standards:

A 366/A 366M Specification for Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality²

A 653/A 653M Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process³

3. Material

3.1 Metal lath shall be fabricated from cold-rolled carbon steel sheet of commercial quality conforming to Specification A 366/A 366M. Galvanized metal lath shall have a G60 coating in accordance with Specification A 653/A 653M.

3.2 Backing shall be netting, film, paper, or felt attached to the lath sufficiently enough to prevent accidental removal during shipping, handling, or installation. Attachment of backing shall also allow lapping of metal to metal and backing to backing, 1 in. (25.4 mm) on the ends and $\frac{1}{2}$ in. (12.7 mm) on the sides.

4. Dimensions, Mass, and Permissible Variations

4.1 *Thickness*—The nominal thickness of diamond mesh and flat rib metal lath shall be $\frac{1}{8}$ in. (3.2 mm). The nominal thickness of other rib metal lath shall be as designated, $\frac{3}{8}$ in.

(9.6 mm). The nominal thickness of self-furring diamond mesh shall be $\frac{5}{16}$ in. (7.9 mm).

4.2 *Width*—The nominal width of metal lath shall be 27 in. (686 mm).

4.3 *Length*—The nominal length of metal lath shall be 96 in. (2438 mm).

4.4 *Weight*—The nominal weight of metal lath shall be as follows:

4.4.1 U.S. Nominal Weights:

Type:	Weight, lb/yd ² (kg/m ²)
Diamond mesh	2.5 (1.4); 3.4 (1.8)
Flat rib	1.8 (1.0); 2.75 (1.5); 3.4 (1.8)
$\frac{3}{8}$ -in. rib	3.4 (1.8); 4.0 (2.1)
Sheet	4.5 (2.4)

4.4.2 Canadian Nominal Weights:

Type:	Weight, lb/yd ² (kg/m ²)
Diamond mesh	2.5 (1.4); 3.0 (1.6); 3.4 (1.8)
Flat rib	1.8 (1.0); 2.5 (1.4); 3.0 (1.6)
$\frac{3}{8}$ -in. rib	3.0 (1.6); 3.5 (1.9); 4.0 (2.1)

4.5 *Permissible Variations*—The permissible variations shall be as follows:

4.5.1 *Thickness*, $\pm \frac{1}{64}$ in. (0.4 mm).

4.5.2 *Width*, $\pm \frac{3}{16}$ in. (4.8 mm).

4.5.3 *Length*, -0 in., $+ 2\frac{1}{2}$ in. (12.7 mm).

4.5.4 *Weight*, $\pm 10\%$.

5. Finish

5.1 Metal lath shall be coated with a water barrier film such as asphalt or non-reemulsifiable water base paint unless fabricated from galvanized steel.

6. Inspection

6.1 Inspection of the material shall be agreed upon between the purchaser and supplier as part of the purchase contract.

7. Rejection and Rehearing

7.1 Any rejection shall be based upon the specific cause of failure to conform to the requirements of this specification, and shall be reported to the seller within 10 working days from the receipt of the shipment by the purchaser.

¹ This specification is under the jurisdiction of ASTM Committee C11 on Gypsum and Related Building Materials and Systems and is the direct responsibility of Subcommittee C11.02 on Specifications and Test Methods for Accessories and Related Products.

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² Annual Book of ASTM Standards, Vol 01.03.

³ Annual Book of ASTM Standards, Vol 01.06.

*A Summary of Changes section appears at the end of this standard.