



# Standard Specification for Metal Lath<sup>1</sup>

This standard is issued under the fixed designation C 847; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

*This specification has been approved for use by agencies of the Department of Defense. Consult the DoD Index of Specifications and Standards for the specific year of issue which has been adopted by 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 Quality<sup>2</sup>
- A 653/A 653M Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process<sup>3</sup>

## 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 <sup>2</sup> (kg/m <sup>2</sup> )
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 <sup>2</sup> (kg/m <sup>2</sup> )
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.

7.2 Claims for rehearing shall be valid only if made within 20 working days from receipt of notice of specific cause for rejection.

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee C-11 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.

Current edition approved Oct. 10, 1995. Published December 1995. Originally published as C 847 – 77. Last previous edition C 847 – 93.

<sup>2</sup> Annual Book of ASTM Standards, Vol 01.03.

<sup>3</sup> Annual Book of ASTM Standards, Vol 01.06.

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

## 8. Certification

8.1 Where specified in the purchase order, a producer's or supplier's certification shall be furnished to the purchaser that the material was in accordance with this specification and has been found to meet the specified requirements.

## 9. Packaging and Package Marking

9.1 Metal lath shall be packaged ten sheets per bundle,

and self-furring lath shall be five or ten sheets per bundle (option of manufacturer).

9.2 When shipped for resale, the name of the manufacturer or the supplier and the brand shall be legibly marked on each lath or package.

## 10. Keywords

10.1 gypsum cement plaster; lath; metal lath; portland cement plaster; rib lath; self-furring; sheet lath

## SUMMARY OF CHANGES

This section identifies the location of changes to this specification that have been incorporated since the last issue. Committee C-11 has highlighted those changes that affect the technical interpretation or use of this specification.

- (1) Paragraph 2.1 was revised.
- (2) Paragraph 3.1 was revised.
- (3) Keywords were added.

*The American Society for Testing and Materials takes no position respecting the validity of any patent rights asserted in connection with any item mentioned in this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.*

*This standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of this standard or for additional standards and should be addressed to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, 100 Barr Harbor Drive, West Conshohocken, PA 19428.*