Designation: C847 – 10a

Standard Specification for Metal Lath[1]

This standard is issued under the fixed designation C847; 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 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, ⅛ and ⅜ 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 standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

2. Referenced Documents

2.1 *ASTM Standards:*[2]

A653/A653M Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

3. Material

3.1 Metal lath shall be fabricated from cold-rolled carbon steel sheet of commercial quality conforming to Specification A653/A653M. Galvanized metal lath shall have a G60 coating in accordance with Specification A653/A653M.

3.2 Backing shall be 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 ½ 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 ⅛ in. (3.2 mm). The nominal thickness of other rib metal lath shall be as designated, ⅜ in. (9.6 mm). The nominal thickness of self-furring diamond mesh shall be 5⁄16 in. (7.9 mm).

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

4.3 *Length*—The minimum length of metal lath shall be 97 in. (2464 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)
⅜-in. rib	3.4 (1.8); 4.0 (2.1)

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)
⅜-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*, ±1⁄64 in. (0.4 mm).

4.5.2 *Width*, ±⅜ in. (9.5 mm).

4.5.3 *Length*, −0 in., + 1½ in. (38.1 mm).

4.5.4 *Weight*, ± 10 %.

5. Finish

5.1 Metal lath shall be fabricated from hot-dipped galvanized steel.

6. Weight Test

6.1 *Significance and Use*—This test method provides a procedure for measuring the weight of a single sheet of metal lath. It shall be used to determine compliance with this specification. The degree of performance of this test method with service performance has not been determined.

6.2 *Apparatus*:

6.2.1 *Scale*, capable of weighing in increments of 0.1 lb (0.05 kg) or 1 oz (28 g).

[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] For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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