



Designation: C933 – 09

Standard Specification for Welded Wire Lath¹

This standard is issued under the fixed designation C933; 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.

1. Scope*

1.1 This specification covers welded wire lath, flat or self-furring, with or without backing, designed for use as a base to receive portland cement-based interior plaster and exterior stucco.

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

A641/A641M Specification for Zinc-Coated (Galvanized) Carbon Steel Wire

C11 Terminology Relating to Gypsum and Related Building Materials and Systems

2.2 *Federal Specifications*:

UU-B-790 Building Paper, Vegetable Fiber: (Kraft, Water-proofed, Water Repellent and Fire Resistant)³

3. Terminology

3.1 Definitions of terms used in this standard shall be in accordance with Terminology **C11**.

4. Materials and Manufacture

4.1 Welded wire lath shall be fabricated from not less than 0.0625 in. (1.588 mm), cold-drawn, galvanized steel wire, conforming to Specification **A641/A641M**.

4.1.1 The wire shall be zinc-coated (galvanized) in accordance with Specification **A641/A641M**.

4.1.2 The backing shall conform to Federal Specification **UU-B-790**. The backing shall be either absorptive or water resistant. The backing shall have a bursting strength of not less than that required to maintain integrity under normal hand- or machine-application pressures.

4.1.3 The backing shall be attached to the lath to prevent accidental removal during shipping, handling or installation. Attachment of the backing shall allow lapping of wire-to-wire and backing-to-backing of not less than one mesh at ends and edges and shall permit full embedment, in not less than ¼ in. (6 mm) of plaster, of not less than one-half of the total length and width of the wire.

4.1.4 The thickness of the embedment of the lath and plaster shall be measured from the back plane of the back wire, exclusive of furring, to the backing or surface of the substrate.

5. Dimensions and Permissible Variations

5.1 *Openings and Stiffening*:

5.1.1 Lath shall be welded at all intersections of wire to form openings not more than 2 in. (51 mm) by 2 in. (51 mm).

5.1.2 Heavy-duty lath shall be stiffened continuously and parallel to the long dimension of the lath at intervals of not more than 6 in. (152 mm). Wire stiffeners used for this purpose shall range from 15-gauge (0.072 in.) to 11-gauge (0.1205 in.). The weight per square yard shall range from 1.14 to 1.95 lb/yd² (0.618 to 1.058 kg/m²) for the heavy-duty lath.

5.1.3 Self-furring crimps on self-furring lath shall project not less than ¼ in. (6.4 mm) from the plane of the back of the lath.

5.2 *Thickness*—The nominal thickness shall be ⅛ in. (3.2 mm), exclusive of self-furring crimps, with a permissible variation of $\pm 1/32$ in. (0.8 mm).

5.3 *Width*—The nominal width shall be 28 in. (710 mm) to 54 in. (1370 mm), with a permissible variation of $\pm 3/4$ in. (19 mm).

5.4 *Length*—The minimum length shall be 48 in. (1220 mm) for sheets or a maximum of 150 ft (45.720 m) for rolls with a permissible variation of $\pm 3/4$ in. (19 mm) for sheets or rolls.

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.

³ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

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