



## Standard Specification for Welded Wire Lath<sup>1</sup>

This standard is issued under the fixed designation C 933; 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 approval. A superscript epsilon ( $\epsilon$ ) 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 SI units are to be regarded as the standard. The values given in parentheses are for information only.

### 2. Referenced Documents

#### 2.1 *ASTM Standards*:<sup>2</sup>

A 641 Specification for Zinc-Coated (Galvanized) Carbon Steel Wire

C 11 Terminology Relating to Gypsum and Related Building Materials and Systems

#### 2.2 *Federal Specifications*:

UU-B-790 Building Paper, Vegetable Fiber: (Kraft, Waterproofed, Water Repellent and Fire Resistant)<sup>3</sup>

### 3. Terminology

3.1 Definitions of terms used in this standard shall be in accordance with Terminology C 11.

### 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 A 641.

4.1.1 The wire shall be zinc-coated (galvanized) in accordance with Specification A 641.

4.1.2 The backing shall be paper or felt, conforming 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  $\frac{1}{8}$  in. (3.2 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). Lath shall be stiffened continuously and parallel to the long dimension of the lath at intervals of not more than 6 in. (152 mm) with wire not less than 0.0720 in. (1.829 mm) in diameter.

5.1.2 Self-furring crimps on self-furring lath shall project not less than  $\frac{1}{4}$  in. (6.4 mm) from the plane of the back of the lath.

5.2 *Thickness*—The nominal thickness shall be  $\frac{1}{8}$  in. (3.2 mm), exclusive of self-furring crimps, with a permissible variation of  $\pm \frac{1}{32}$  in. (0.8 mm).

5.3 *Width*—The nominal width shall be 28 in. (710 mm) or 38 in. (965 mm), with a permissible variation of  $\pm \frac{3}{4}$  in. (19 mm).

5.4 *Length*—The nominal length shall be 96 in. (2440 mm) or 104 in. (2640 mm) with a permissible variation of  $\pm \frac{3}{4}$  in. (19 mm).

5.5 *Weight*—The nominal weight, exclusive of backing, shall be from 1.14 to 1.83 lb/yd<sup>2</sup> (0.618 to 0.993 kg/m<sup>2</sup>). Permissible variation in percentage over and under the nominal weights shall be in accordance with mill tolerances.

### 6. Sampling

6.1 When specified by the purchase agreement, samples of welded wire lath shall be taken at the place of manufacture or at the place of destination. If samples are taken at the

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>3</sup> 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.

destination, such samples shall be taken within 24 h of the receipt of the material.

6.2 At least 0.25 % of the number of sheets of welded wire lath in a shipment, but not less than three sheets, shall be so selected as to be representative of the shipment and shall constitute a sample for the purpose of tests by the purchaser or user.

## **7. Inspection**

7.1 Inspection of the welded wire lath shall be agreed upon between the purchaser and the producer or supplier as part of the purchase agreement.

## **8. Rejection**

8.1 Rejection of welded wire lath that fails to conform to the requirements of the specification shall be reported to the producer or supplier promptly and in writing. The notice of rejection shall contain a statement documenting how the welded wire lath has failed to conform to the requirements of the specification.

## **9. Packaging and Package Marking**

9.1 Nominal 96 in. (2440 mm) lengths shall be packaged with 12 sheets [25 yd<sup>2</sup>(21 m<sup>2</sup>)] per bundle; nominal 48 in. (1220 mm) lengths shall be packaged with 19 sheets [20 yd<sup>2</sup>(17 m<sup>2</sup>)] per bundle.

9.2 Unless otherwise required by the purchase agreement, lath shall have legibly marked thereon the following: the product description; the name of the producer or seller; the brand name (if any); and the ASTM designation for the product.

9.2.1 Each bundle of lath with no backing shall be marked on metal or paper tags securely attached to the bundles.

9.2.2 Each sheet of lath with backing shall be marked on the backing material.

## **10. Keywords**

10.1 lath; metal plaster base; plaster; self-furring lath; stucco; wire lath

## **SUMMARY OF CHANGES**

Committee C11 has identified the location of selected changes to this specification since the last issue, C 933 – 96a(2001), that may impact the use of this specification. (Approved May 1, 2004)

(I) Revised paragraph 4.1.1.

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