



Designation: B 101 – 01

Standard Specification for Lead-Coated Copper Sheet and Strip for Building Construction¹

This standard is issued under the fixed designation B 101; 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 establishes the requirements for lead-coated copper sheet and strip in flat lengths (or in coils) in ounce-weight thicknesses for roofing, flashing, gutters, downspouts, and for the general sheet metalwork in building construction. The lead coating is applied by hot dipping.

1.2 Materials made to this specification are not intended for electrical applications.

1.3 *Units*—The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units, which are provided for information only and are not considered standard.

NOTE 1—A companion specification for copper sheet and strip for building construction is Specification B 370.

1.4 The following hazard caveat pertains to the test method portion, Section 17, of this specification. *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 The following documents in the current issue of the *Annual Book of ASTM Standards* form a part of this specification to the extent referenced herein:

2.2 ASTM Standards:

B 248 Specification for General Requirements for Wrought Copper and Copper-Alloy Plate, Sheet, Strip, and Rolled Bar²

B 370 Specification for Copper Sheet and Strip for Building Construction²

B 601 Classification for Temper Designations for Copper and Copper Alloys—Wrought and Cast²

B 846 Terminology for Copper and Copper Alloys²

E 8 Test Methods for Tension Testing of Metallic Materials³

E 37 Test Methods for Chemical Analysis of Pig Lead⁴

E 46 Test Methods for Chemical Analysis of Lead- and Tin-Base Solders⁵

E 62 Test Methods for Chemical Analysis of Copper and Copper Alloys (Photometric Methods)⁴

E 112 Test Methods for Determining Average Grain Size³

E 478 Test Methods for Chemical Analysis of Copper Alloys⁶

3. General Requirements

3.1 The following sections of Specification B 248 constitute a part of this specification.

3.1.1 Significance of numerical limits,

3.1.2 Inspection,

3.1.3 Rejection and rehearing,

3.1.4 Certification,

3.1.5 Mill test reports, and

3.1.6 Packaging and package marking.

4. Terminology

4.1 For definitions of terms related to copper and copper alloys, refer to Terminology B 846.

4.2 Definitions of Terms Specific to This Standard:

4.2.1 *coil*—a length of the product wound into a series of connected turns.

4.2.1.1 *Discussion*—The unqualified term “coil” as applied to “flat product” usually refers to a coil in which the product is spirally wound, with the successive layers on top of one another. (Sometimes called a “roll.”)

4.2.2 *lead-coated copper sheet (for building construction)*, *n*—a rolled flat product over 24 in. (610 mm) in width and of ounce-weight thickness from 8 oz (227 g) to 48 oz (1361 g).

4.2.3 *lead-coated strip (for building construction)*, *n*—a rolled flat product up to and including 24 in. (610 mm) in width and of ounce-weight thickness from 8 oz (227 g) to 48 oz (1361 g).

¹ This specification is under the jurisdiction of Committee B05 on Copper and Copper Alloys and is the direct responsibility of Subcommittee B05.01 on Plate, Sheet, and Strip.

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² *Annual Book of ASTM Standards*, Vol 02.01.

³ *Annual Book of ASTM Standards*, Vol 03.01.

⁴ *Annual Book of ASTM Standards*, Vol 03.05.

⁵ Discontinued, see 1994 *Annual Book of ASTM Standards*, Vol 03.05.

⁶ *Annual Book of ASTM Standards*, Vol 03.06.

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