



Specification for Pre-Patinated Copper for Architectural Applications¹

This standard is issued under the fixed designation B 882; 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 the requirements for pre-patinated (artificially aged) copper sheet and strip in ounce-weight thicknesses supplied in flat lengths for roofing, flashing, and other architectural applications.

1.2 The pre-patinated surface is the result of chemical reaction with the copper and shall be applied on one side of the product.

1.2.1 The pre-patinated surface formed is comparable in color and ability to be bent or formed to the surface formed in naturally occurring patinated copper.

1.3 The pre-patinated surface is not the result of coating applications such as painting, cladding, or plating.

1.4 Materials made to this specification are not intended to be used for electrical applications.

1.5 The values stated in inch-pound units are to be regarded as the standard. The values given in parenthesis are for information only.

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

1.6 The following precautionary statement pertains only to the test method portion, Section 12, 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 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 571 Test Methods for Adhesion of Metallic Coatings³

B 601 Practice 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 Materials⁴

E 478 Test Methods for Chemical Analysis of Copper Alloys⁵

G 23 Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials⁶

3. Terminology

3.1 Definitions

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

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *pre-patinated copper*—copper that has been artificially aged under controlled and monitored conditions to produce a protective surface that is within the range of colors from green to turquoise.

4. Ordering Information

4.1 Orders for product produced to this specification should include the following information:

4.1.1 ASTM designation and year of issue,

4.1.2 Ounce weight thickness of the base copper sheet (see Table 1),

4.1.3 Temper (see Table 2),

4.1.4 *Dimensions*—Width and length of sheets, and

4.1.5 *Quantity*—Total weight or number of sheets of each size.

4.2 The following requirements are optional and shall be included in the purchase order or contract when required:

4.2.1 Certification,

4.2.2 Mill test reports, or

4.2.3 Supplementary requirements for agencies of the U.S. Government as given in Specification B 248, or both.

5. General Requirements

5.1 The following sections of Specification B 248 constitute a part of this specification:

5.1.1 Sampling,

¹ This specification is under the jurisdiction of ASTM 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 02.05.

⁴ Annual Book of ASTM Standards, Vol. 03.01.

⁵ Annual Book of ASTM Standards, Vol 03.05.

⁶ Annual Book of ASTM Standards, Vol 07.01.