



Designation: ~~C 1047-04~~ Designation: C 1047 - 05

# Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base<sup>1</sup>

This standard is issued under the fixed designation C 1047; 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 ( $\epsilon$ ) 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 accessories used in conjunction with assemblies of gypsum wallboard and gypsum veneer plaster base to protect edges and corners and to provide architectural features (see Fig. 1).

1.2 The values stated in inch-pound units are to be regarded as the standard. The SI units in parentheses are provided for information purposes only. The SI equivalents of inch-pound units may be approximate.

## 2. Referenced Documents

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

A 463/A 463M [Specification for Steel Sheet, Aluminum-Coated, by the Hot-Dip Process](#)

A 591/A 591M [Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating \[Mass\] Applications](#)

A 653/A 653M [Specification for Steel Sheet, Zinc-Coated \(Galvanized\) or Zinc-Iron Alloy-Coated \(Galvannealed\) by the Hot-Dip Process](#)

B 69 [Specification for Rolled Zinc](#)

B 117 [Practice for Operating Salt Spray \(Fog\) Apparatus](#)

C 11 [Terminology Relating to Gypsum and Related Building Materials and Systems](#)

C475 [475/C 475M Specification for Joint Compound and Joint Tape for Finishing Gypsum Board](#)

C 587 [Specification for Gypsum Veneer Plaster](#)

D 1788 [Specification for Rigid Acrylonitrile-Butadiene-Styrene \(ABS\) Plastics](#)<sup>3</sup>

D 2092 [Guide for Preparation of Zinc-Coated \(Galvanized\) Steel Surfaces for Painting](#)

D 3678 [Specification for Rigid Poly\(Vinyl Chloride\) \(PVC\) Interior Profile Extrusions](#)

## 3. Terminology

3.1 *Definitions:* <https://www.astm.org/catalog/standards/sist/b30a8de2-7587-4ee8-ba6a-d8974a44c3c8/astm-c1047-05>

3.1.1 Definitions shall be in accordance with Terminology C 11.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *accessories, n*—cornerbeads, edge trims, and control joints, such as casing beads, bull noses, and stops.

3.2.2 *control joint, n*—a formed product used for designed or required separations between adjacent surfaces of gypsum boards or gypsum veneer base.

3.2.3 *cornerbead, n*—a formed metal, plastic, or metal and paper angle for outside corners of gypsum boards or gypsum veneer base.

3.2.4 *edge trim, n*—typically “J”- or “L”-shaped strip, as shown in Fig. 1, formed of metal, plastic, or metal and paper to cover exposed ends or edges of gypsum board or gypsum veneer base.

3.2.5 *flange, n*—that part of the accessory extending out on the face of the gypsum board. —that portion of the accessory used for the attachment to gypsum wallboard, gypsum veneer base, or a framing member.

<sup>1</sup> 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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<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> Withdrawn.

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

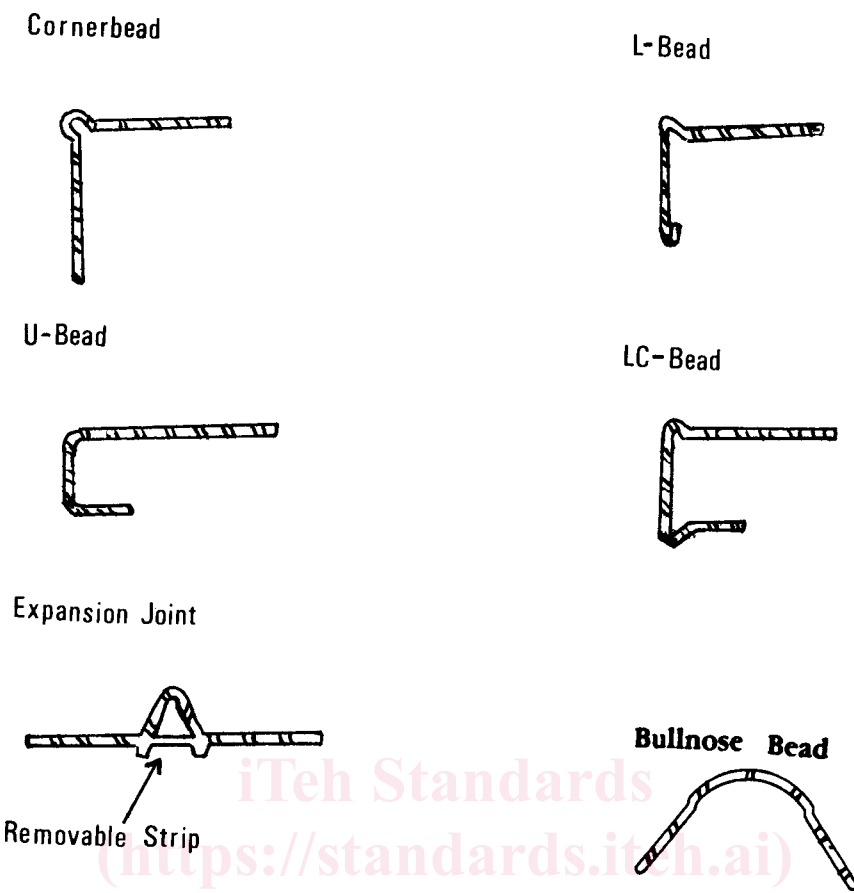


FIG. 1 Accessories for Gypsum Wallboard and Gypsum Veneer Base

#### 4. Materials and Manufacture

4.1 Steel accessories and steel components of accessories manufactured from steel and paper in combination shall be manufactured from zinc-coated cold-roll (coil or cut length) sheet steel not less than 0.012-in. (0.30-mm) thick before application of coating.

4.1.1 Sheet steel, zinc-coated by the hot-dip process, shall be in accordance with Specification A 653/A 653M, minimized spangle, minimum G-30 coating.

4.1.2 Sheet steel, zinc-coated by the electrolytic process shall be in accordance with Specification A 591/A 591M, minimum coating on surface side to be 0.000140 in. (0.00356 mm), minimum coating on reverse side to be 0.00010 in. (0.00254 mm).

4.1.3 Sheet steel, aluminum-coated, shall be in accordance with Specification A 463/A 463M minimum T1-40 coating.

4.1.4 Phosphatizing (as specified in Method A of Guide D 2092) or other surface treatments may be used to ensure compatibility and bond as specified in Section 5.

4.2 Zinc accessories shall be manufactured from rolled zinc in accordance with Specification B 69, Type I, not less than 0.012-in. (0.305-mm) thick.

4.3 Plastic for accessories shall be manufactured from rigid PVC or ABS plastic not less than 0.012 in. (0.305 mm).

4.3.1 PVC, Specification D 3678, Class II or III.

4.3.2 ABS, Specification D 1788 – 81, all limits 5-3-3-1-1.

4.4 Paper components of accessories manufactured from steel and paper in combination shall comply with requirements for thickness, tensile strength, dimensional stability, and bond of joint tape to joint compound as specified in Specification C 475/C 475M.

#### 5. Physical Properties

5.1 *Compatibility and Bond*—Accessories shall be compatible with and provide a surface bond to the materials specified in Specifications C 475/C 475M and C 587.

5.2 *Test Performance*— Steel accessories and steel components of accessories shall not show any red oxidation when tested as specified in Practice B 117 for 192 h.

#### 6. Dimensions and Permissible Variations

6.1 Cornerbeads shall have an interior angle between the flanges no greater than 89°.