



Designation: C1047 – 19

Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base¹

This standard is issued under the fixed designation C1047; 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 U.S. Department of Defense.

1. Scope*

1.1 This specification covers accessories used in conjunction with assemblies of gypsum wallboard and gypsum veneer 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 standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

[A463/A463M](#) Specification for Steel Sheet, Aluminum-Coated, by the Hot-Dip Process

[A653/A653M](#) Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

[A875/A875M](#) Specification for Steel Sheet, Zinc-5 % Aluminum Alloy-Coated by the Hot-Dip Process

[A879/A879M](#) Specification for Steel Sheet, Zinc Coated by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface

[B69](#) Specification for Rolled Zinc

[B117](#) Practice for Operating Salt Spray (Fog) Apparatus

[C11](#) Terminology Relating to Gypsum and Related Building Materials and Systems

[C475/C475M](#) Specification for Joint Compound and Joint Tape for Finishing Gypsum Board

[C587](#) Specification for Gypsum Veneer Plaster

[D1788](#) Specification for Rigid Acrylonitrile-Butadiene-Styrene(Abs) Plastics (Withdrawn 1988)³

[D3678](#) Specification for Rigid Poly(Vinyl Chloride) (PVC) Interior-Profile Extrusions

[D3935](#) Classification System and Basis for Specification for Polycarbonate (PC) Unfilled and Reinforced Material

[D4549](#) Classification System and Basis for Specification for Polystyrene and Rubber-Modified Polystyrene Molding and Extrusion Materials (PS)

[D5927](#) Classification System and Basis for Specifications for Thermoplastic Polyester (TPES) Injection and Extrusion Materials Based on ISO Test Methods

[D6386](#) Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Painting

3. Terminology

3.1 Definitions:

3.1.1 Definitions shall be in accordance with Terminology C11.

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, metal and paper, or plastic and paper angle for inside and 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, metal and paper, or plastic and paper to cover exposed ends or edges of gypsum board or gypsum veneer base.

³ The last approved version of this historical standard is referenced on www.astm.org.

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.

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

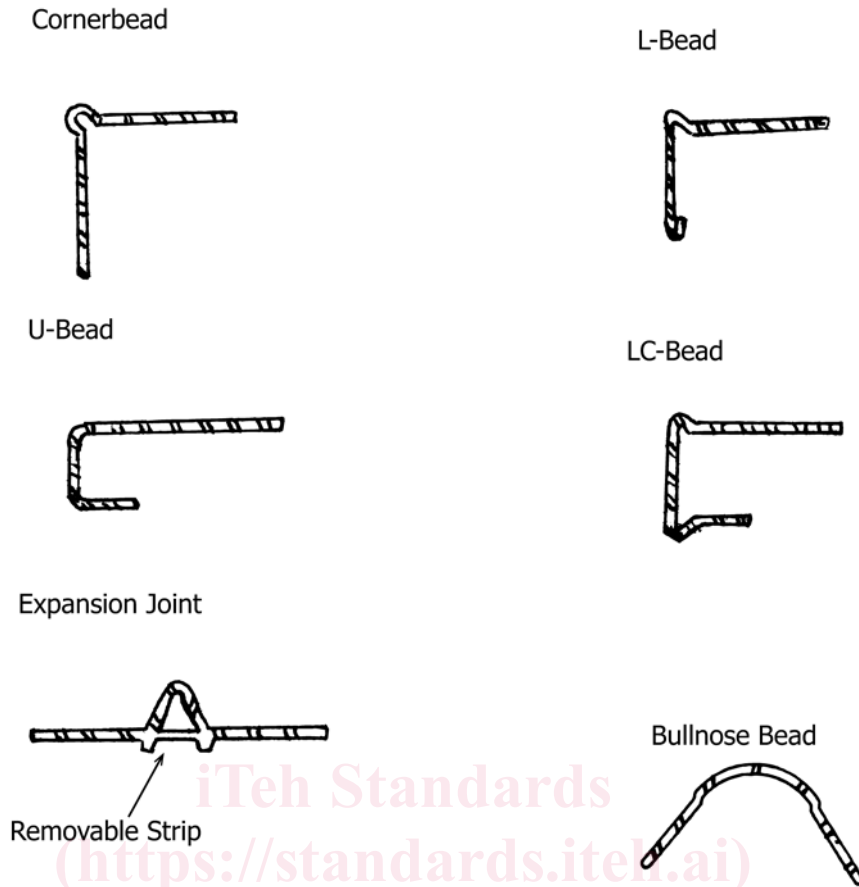


FIG. 1 Accessories for Gypsum Wallboard and Gypsum Veneer Base

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

3.2.6 *wing, n*—that portion of paper that extends beyond the flange of the metal or plastic cornerbead or accessory used to attach the cornerbead or accessory to gypsum wallboard or gypsum veneer base.

4. Materials and Manufacture

4.1 Steel Accessories:

4.1.1 Steel accessories and steel components of accessories manufactured from steel and paper in combination, with total flange width (sum of both flanges) less than 2.0 in. (51 mm), 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.

4.1.2 Steel accessories and steel components of accessories manufactured from steel and paper in combination, with total flange width (sum of both flanges) greater than 2.0 in. (51 mm), shall be manufactured from zinc-coated cold-roll (coil or cut length) sheet steel not less than 0.009-in. (0.23 mm) thick before application of coating.

4.1.3 Sheet steel, zinc-coated by the hot-dip process, shall be in accordance with Specification A653/A653M, minimized spangle, minimum G-30 coating.

4.1.4 Sheet steel, zinc-5 % aluminum alloy coated, shall be in accordance with Specification A875/A875M minimum GF15 coating.

4.1.5 Sheet steel, zinc-coated by the electrolytic process shall be in accordance with Specification A879/A879M 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).

4.1.6 Sheet steel, aluminum-coated, shall be in accordance with Specification A463/A463M minimum T1-40 coating.

4.1.7 Zinc-phosphate treatment (as specified in 5.4.2 of Practice D6386) 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 B69, Type I, not less than 0.012-in. (0.305-mm) thick.

4.3 Plastic accessories and plastic components of accessories manufactured from plastic and paper in combination shall be manufactured from rigid PVC, ABS, PETG, PET, high-impact polystyrene (HIPS), or polycarbonate (PC) plastic not less than 0.028 in. (0.711 mm) in thickness, at the thickest point.

4.3.1 PVC, Specification D3678, Class II or III.

4.3.2 ABS, Specification D1788 – 81, all limits 5-3-3-1-1.