



Designation: **C1861—17** **C1861 – 18**

Standard Specification for Lathing and Furring Accessories, and Fasteners, for Interior and Exterior Portland Cement-Based Plaster¹

This standard is issued under the fixed designation C1861; 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—Scope*

1.1 This specification contains the minimum requirements for lathing and furring accessories, and fasteners, as components of interior and exterior portland cement-based plaster assemblies, used to facilitate lathing and furring installation (Specifications **C1063**, **C1787**), cement plaster application (Specification **C926**), and functionality of the completed stucco cladding assembly

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

A240/A240M Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

A580/A580M Specification for Stainless Steel Wire

A641/A641M Specification for Zinc-Coated (Galvanized) Carbon Steel Wire

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

B69 Specification for Rolled Zinc

B221 Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes

C926 Specification for Application of Portland Cement-Based Plaster

C954 Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness

C1002 Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs

C1063 Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster

C1787 Specification for Installation of Non Metallic Plaster Bases (Lath) Used with Portland Cement Based Plaster in Vertical Wall Applications

D1784 Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds

D4216 Specification for Rigid Poly(Vinyl Chloride) (PVC) and Related PVC and Chlorinated Poly(Vinyl Chloride) (CPVC) Building Products Compounds

F1667 Specification for Driven Fasteners: Nails, Spikes, and Staples

3. Terminology

3.1 *Definitions:*

3.1.1 Definitions shall be in accordance with Specification **C1063**.

¹ This test method 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

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *capture flange, n*—the narrow flange element of a lathing accessory that projects from a ground and returns onto the exterior stucco cladding surface to conceal the gap between the ground and stucco cladding.

3.2.2 *cement plaster panel area, n*—the surface of a cement plaster area between lathing accessory grounds.

3.2.3 *drainage surface, n*—the sloped or non-sloped, perforated or non-perforated surface element of a lathing accessory that facilitates a drainage function, by directing water from behind the stucco cladding to the exterior of the stucco cladding.

3.2.4 *drip flange, n*—the narrow flange element of a lathing accessory that facilitates a drainage function, projects from a drainage surface and directs water to the exterior of the stucco cladding.

3.2.5 *fastener, n*—a nail, screw, staple or power actuated fastener.

3.2.6 *flexible pleat, n*—the flexible element of a control joint lathing accessory that accommodates movement of the cement plaster cladding assembly caused by shrinkage and thermal variations.

3.2.7 *ground, n*—the element of a lathing accessory that provides an edge, end, or termination for a cement plaster panel area, with a ground dimension to assist in cement plaster thickness control.

3.2.8 *key attachment flange, n*—the attachment flange element of a lathing accessory that is full of holes or is expanded sheet metal that provides a means for accurate alignment, facilitates complete embedment of the key attachment flange and adjacent lath by cement plaster, and is used to attach the lathing accessory.

3.2.9 *movement gap, n*—the element of an expansion joint lathing accessory that accommodates some degree of movement in the stucco cladding assembly caused by movement of the building, the substrate, or its components.

3.2.10 *screed, n*—synonymous with *ground*.

3.2.11 *solid attachment flange, n*—the solid attachment flange element of a lathing or furring accessory that provides a means for accurate alignment, facilitates drainage where drainage is required by integration of the solid attachment flange with the water-resistive barrier, and which has no holes except for optional fastener holes used to fasten the lathing accessory.

3.3 Illustrations (Fig. 1) are intended to generically depict examples of common lathing and furring accessory shapes and fasteners, by depicting their functional elements in relationship to each other, without literally depicting specific manufactured products. Variations of lathing and furring accessory shapes and fasteners illustrated shall be acceptable when the function and performance is equivalent to or exceeds the illustrated accessory or fastener.

4. Materials and Manufacture

4.1 General:

4.1.1 Lathing and furring accessories, and fasteners shall be free of deleterious amounts of rust, oil, or other foreign matter that could cause bond failure or unsightly discoloration.

4.1.2 Lathing and furring accessories shall include key attachment flanges or solid attachment flanges. Solid attachment flanges shall accommodate self-piercing fasteners without deforming the attachment flange or shall include optional fastener holes used to fasten the lathing accessory.

4.1.3 Lathing and furring accessories shall facilitate lathing and furring installation, cement plaster application, and functionality of the completed stucco cladding assembly. Lathing and furring accessories shall be configured to serve one or more functions such as to assist in cement plaster thickness control, to reinforce cement plaster corners, to facilitate drainage, to reduce cracking by accommodating movement, to separate cement plaster from dissimilar materials, load bearing members and penetrating elements, and to provide an edge, end, or termination for a cement plaster panel area.

4.1.4 Lathing accessories shall be configured to accommodate application of the specified cement plaster thickness. The ground dimension of lathing accessories shall be determined by the specified thickness of the cement plaster with consideration of the installed configuration of the lathing accessory to the lath (lathing accessory located under or over the lath).

4.1.5 Lathing accessories serving a drainage function shall include a drainage surface and a solid attachment flange.

4.2 Materials:

4.2.1 *Steel*—Specification **A653/A653M**, with a G60 coating.

4.2.2 *Stainless Steel*—Specification **A240/A240M**, Type 304 or 316.

4.2.3 *Zinc Alloy*—Specification **B69**, 99 % pure zinc.

4.2.4 *Anodized Aluminum Alloy*—Specification **B221**.

4.2.5 *PVC and CPVC Plastic*—Specification **D1784** or **D4216**.

4.2.6 Lathing accessories shall be corrosion resistant and fabricated from galvanized (zinc-coated) steel, stainless steel, rigid PVC or CPVC plastic, zinc alloy, or anodized aluminum alloy. Lathing accessory base material and minimum thickness shall be as indicated in **Table 1**.

4.2.7 Fasteners shall be fabricated from steel or stainless steel and comply with Specifications **C954**, **C1002**, and **F1667** as applicable. Steel fasteners shall have a corrosion resistant plating or coating.

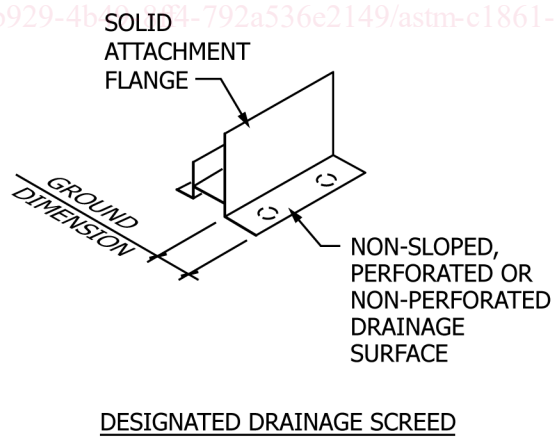
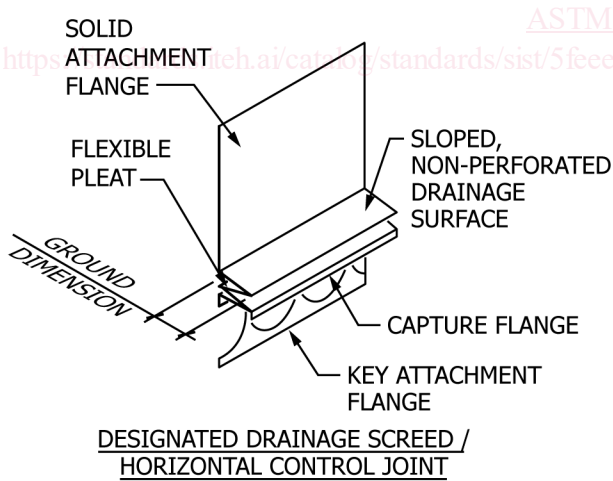
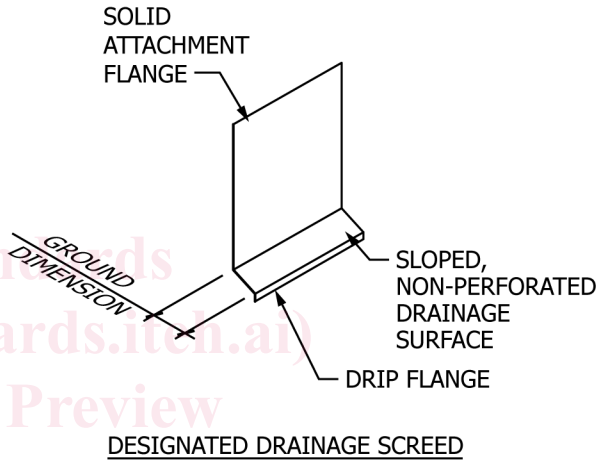
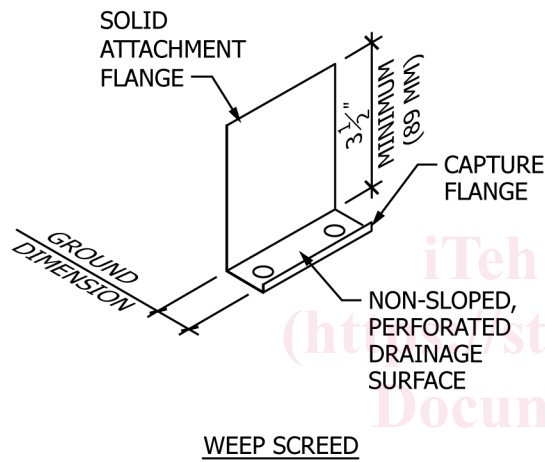
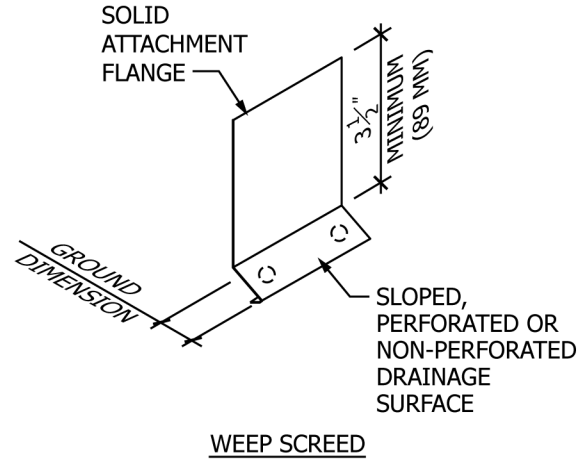
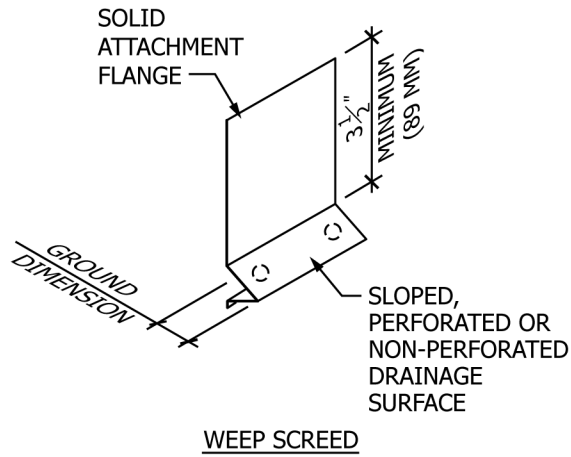


FIG. 1 Lathing and Furring Accessories, and Fasteners

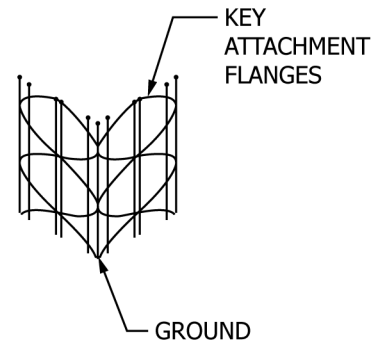
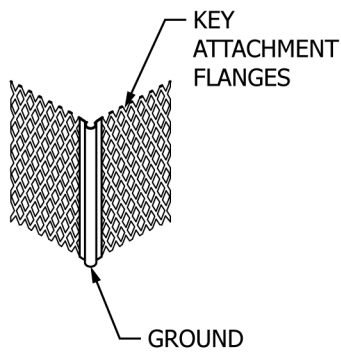
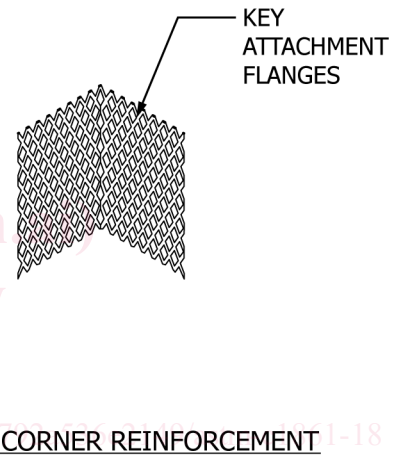
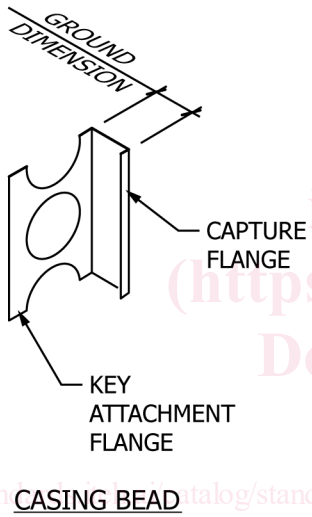
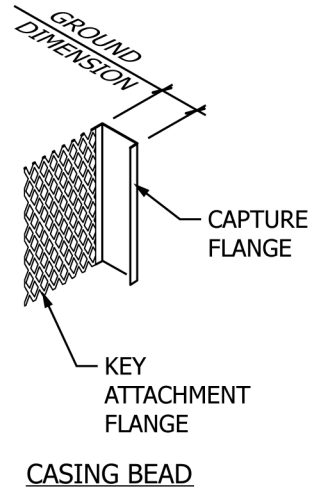
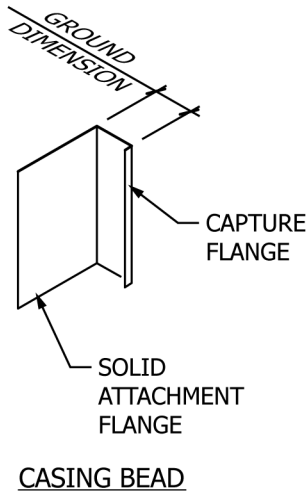
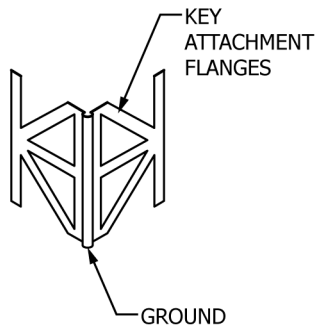
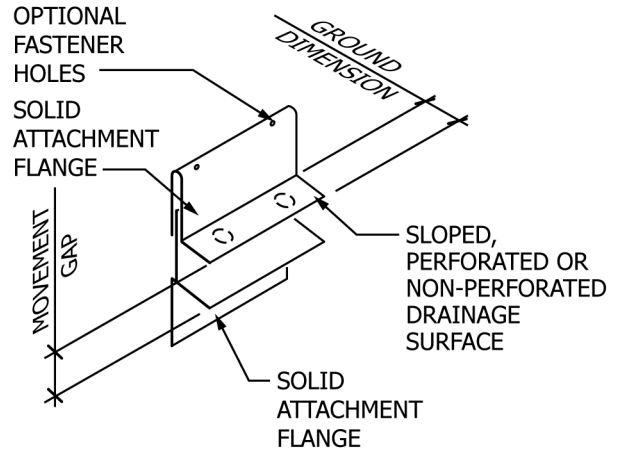


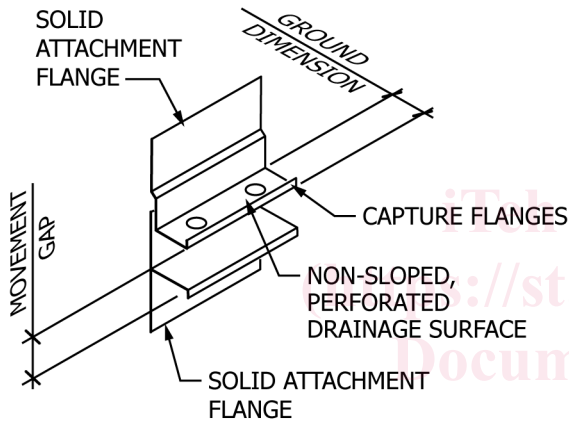
FIG. 1 Lathing and Furring Accessories, and Fasteners (continued)



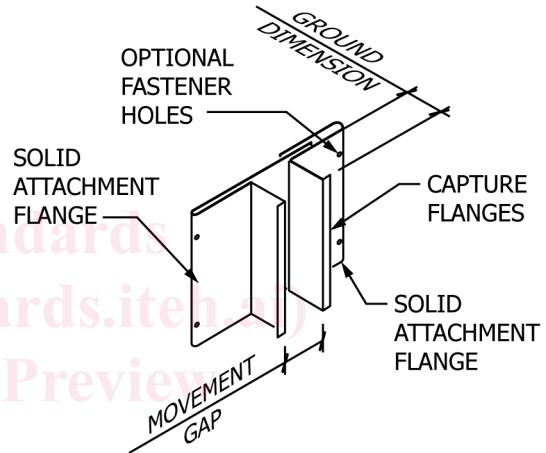
EXTERNAL CORNER REINFORCEMENT



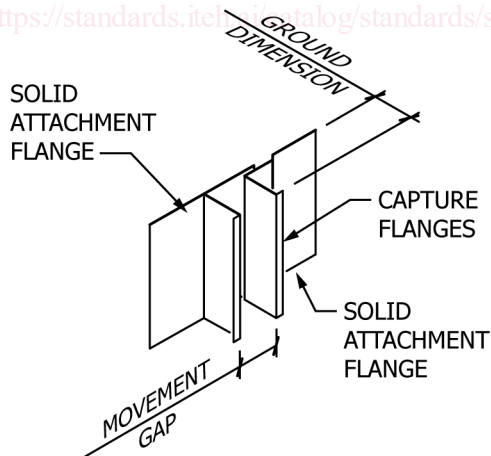
EXPANSION JOINT - HORIZONTAL



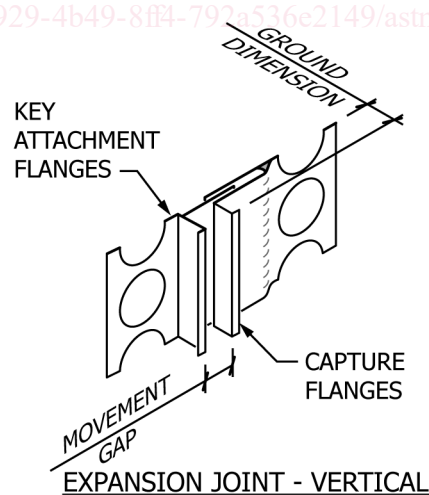
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EXPANSION JOINT - VERTICAL

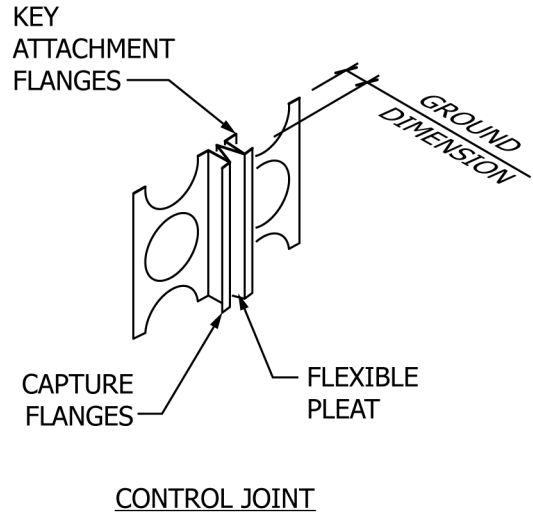
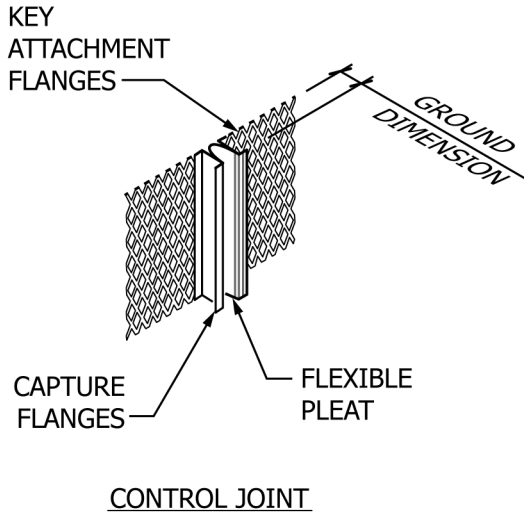


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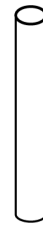
EXPANSION JOINT - VERTICAL

FIG. 1 Lathing and Furring Accessories, and Fasteners (continued)



STRAP HANGER

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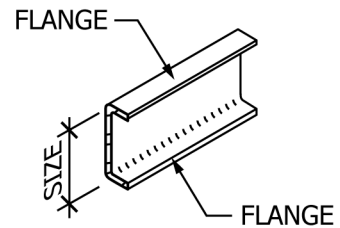
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THREADED ROD HANGER



COLD-ROLLED CHANNEL FURRING

FIG. 1 Lathing and Furring Accessories, and Fasteners (continued)