



**Designation: C841 – 03 (Reapproved 2013) C841 – 03 (Reapproved 2018)**

## Standard Specification for Installation of Interior Lathing and Furring<sup>1</sup>

This standard is issued under the fixed designation C841; 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 U.S. Department of Defense.*

### 1. Scope

1.1 This specification covers the minimum requirements for, and the methods of application of, interior lathing and furring to receive gypsum plaster applied in accordance with Specification C842. Other materials are not prohibited from being used provided that their physical characteristics and durability under conditions of usage are at least equal in performance to those described.

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 Details of construction for a specific assembly to achieve the required fire resistance shall be obtained from reports of fire-resistance tests, engineering evaluations, or listings from recognized fire testing laboratories.

1.4 Where a specific degree of sound control is required for plastered assemblies and constructions, details of construction shall be obtained from reports of sound tests of assemblies that have met the requirements of Test Method E492.

1.5 *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:<sup>2</sup>

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

C11 Terminology Relating to Gypsum and Related Building Materials and Systems

C37/C37M Specification for Gypsum Lath (Withdrawn 2004)<sup>3</sup>

C514 Specification for Nails for the Application of Gypsum Board

C754 Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products

C842 Specification for Application of Interior Gypsum Plaster

C847 Specification for Metal Lath

C933 Specification for Welded Wire Lath

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

C1007 Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories

C1032 Specification for Woven Wire Plaster Base

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

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

E492 Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine

<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 C11.03 on Specifications for the Application of Gypsum and Other Products in Assemblies.

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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> The last approved version of this historical standard is referenced on [www.astm.org](http://www.astm.org).

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

2.2 *National Association of Architectural Metal Manufacturers Standard*  
**HMMA 840 Installation and Storage of Hollow Metal Doors and Frames**<sup>4</sup>

### 3. Terminology

3.1 *Definitions*—For definitions relating to ceilings and walls see Terminology **C11**.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *base coat, n*—the sum of the scratch and brown coats or the total coats in place prior to application of finish coats.

3.2.2 *contact ceiling, n*—a ceiling in which the lath is attached in direct contact with the construction above, without the use of main runners or cross furring.

3.2.3 *furred ceiling, n*—a ceiling in which the furring used for the support of the lath is attached directly to the structural members of the building.

3.2.4 *suspended ceiling, n*—a ceiling in which the main runners and cross furring are suspended below the structural members of the building.

3.2.5 *main runners, n*—the members that are attached to or suspended from the construction above for the support of cross furring.

3.2.6 *cross furring, n*—furring members that are attached at right angles to the underside of the main runners or construction above for support of the lath.

3.2.7 *furring, n*—spacer strips fastened to a wall, ceiling, or planar element that create an even surface for the application of metal plaster bases or gypsum lath.

3.2.8 *primary members, n*—the members (main runners or structural supports) to which the cross furring is attached.

3.2.9 *metal plaster bases, n*—expanded metal lath, sheet metal lath, welded or woven wire lath.

3.2.10 *face side (gypsum lath), n*—the side opposite the paper cover seam laps.

3.2.11 *surface transition, n*—the change in width of a surface, usually as a result of penetrations (doors, windows) or architectural demands.

### 4. Delivery of Materials

4.1 All materials shall be delivered in the original packages, containers, or bundles bearing the brand name and manufacturer's (or supplier's) identification.

### 5. Storage of Materials

5.1 All materials shall be kept dry, preferably by being stored inside. Where necessary to be stored outside, materials shall be stacked off the ground, supported on a level platform, and protected from the weather and surface contamination.

5.2 Materials shall be neatly stacked flat with care taken to avoid damage to edges, ends, or surfaces.

### 6. Materials

6.1 Wire Specification **A641/A641M**, Class 1 coating (galvanized) soft temper.

6.1.1 *Tie Wire and Hanger Wire*—Zinc-coated (galvanized) soft-annealed steel, or a material having equivalent size, corrosion resistance and strength. Wire diameters (uncoated) specified herein correspond with United States steel wire gage gauge numbers as follows:

<sup>4</sup> Available from National Association of Architectural Metal Manufacturers (NAAMM), 800 Roosevelt Road, Bldg. C, Suite 312, Glen Ellyn, IL 60137, <http://www.naamm.org>.