



Designation: C1063 – 23

# Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster<sup>1</sup>

This standard is issued under the fixed designation C1063; 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 technical requirements for the installation of lathing and furring for the application of exterior and interior portland cement-based plaster, as in Specification C926. These requirements do not by default define a unit of work or assign responsibility for contractual purposes, which is the purview of a contract or contracts made between contracting entities.

### 1.2 Table of Contents:

Scope	1
Referenced Documents	2
Terminology	3
Delivery and Storage of Materials	4
Materials	5
Requirements for Substrates to Receive Metal Lathing & Furring Installation	6
Workmanship	7.1
Installation of Metal Furring for Walls	7.2
Installation of Metal Plaster Bases	7.3
Installation of Lathing Accessories	7.4
Keywords	8
Installation of Metal Furring for Suspended Ceilings	Annex A1

1.3 Where a fire resistance rating is required for plastered assemblies and constructions, details of construction shall be in accordance with reports of fire tests of assemblies that have met the requirements of the fire rating imposed.

1.4 Where a specific degree of sound control is required for plastered assemblies and constructions, details of construction shall be in accordance with official reports of tests conducted in recognized testing laboratories in accordance with the applicable requirements of Test Method E90.

1.5 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.

1.6 The text of this specification references notes and footnotes that provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the specification.

1.7 *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>

- C11 Terminology Relating to Gypsum and Related Building Materials and Systems
- C578 Specification for Rigid, Cellular Polystyrene Thermal Insulation
- C847 Specification for Metal Lath
- C926 Specification for Application of Portland Cement-Based Plaster
- C933 Specification for Welded Wire Lath
- C1032 Specification for Woven Wire Plaster Base
- C1280 Specification for Application of Exterior Gypsum Panel Products for Use as Sheathing
- C1289 Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
- C1861 Specification for Lathing and Furring Accessories, and Fasteners, for Interior and Exterior Portland Cement-Based Plaster
- E90 Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

### 2.2 US Department of Commerce (DOC) Standards:<sup>3</sup>

- PS 1 Voluntary Product Standard PS 1, Structural Plywood

<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.

Current edition approved July 1, 2023. Published July 2023. Originally approved in 1986. Last previous edition approved in 2022 as C1063 – 22a. DOI: 10.1520/C1063-23.

<sup>2</sup> 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.

<sup>3</sup> Available from U.S. Government Printing Office, Superintendent of Documents, 732 N. Capitol St., NW, Washington, DC 20401-0001, http://www.access.gpo.gov.

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

**PS 2 Voluntary Product Standard PS 2, Performance Standard for Wood-Based Structural Use Panels**

2.3 *ANSI/AWC Standards*:<sup>4</sup>

**NDS National Design Specification for Wood Construction**

### 3. Terminology

#### 3.1 Definitions:

3.1.1 For definitions relating to ceilings and walls, see Terminology **C11**.

3.1.2 For definitions relating to lathing accessories, furring accessories, and fasteners, see Specification **C1861**.

#### 3.2 Definitions of Terms Specific to This Standard:

3.2.1 *building enclosure, n*—system of building assemblies and materials designed and installed in such a manner as to provide a barrier between different environments.

3.2.2 *control joint, n*—a joint that accommodates movement of plaster shrinkage and curing along predetermined, usually straight, lines.

3.2.3 *expansion joint, n*—a joint that accommodates movement beyond plaster shrinkage and curing.

NOTE 1—For design consideration of control and expansion joints, see A2.3.1.2 of Specification **C926**.

3.2.4 *framing member, n*—studs, joist, runners (track), bridging, bracing, and related accessories manufactured or supplied in wood or light gauge steel.

3.2.5 *hangers, n*—wires or steel rods or straps used to support main runners for suspended ceilings beneath floor or roof constructions.

3.2.6 *inserts, n*—devices embedded in concrete framing members to provide a loop or opening for attachment of hangers.

3.2.7 *reentrant corner, n*—a wall opening corner forming an angle of less than 180°.

3.2.8 *saddle tie, n*—see **Figs. A1.6 and A1.7**.

3.2.9 *self-furring, adj*—a metal plaster base manufactured with evenly-spaced indentations that hold the body of the lath approximately ¼ in. (6 mm) away from solid surfaces to which it is installed.

3.2.10 *water-resistive barrier, n*—a material that resists the infiltration of liquid moisture through the building enclosure system.

3.2.11 *weather-exposed surface, n*—surfaces of walls, ceilings, floors, roofs, soffits, and similar surfaces exposed to the weather except the following: (1) ceilings and roof soffits enclosed by walls, fascia, bulkheads or beams that extend not less than 12 in. (305 mm) below such ceiling or roof soffits; (2) walls or portions of walls beneath an unenclosed roof area, where located a horizontal distance from an open exterior opening equal to not less than twice the height of the opening; and (3) ceiling and roof soffits located a minimum horizontal distance of 10 ft (3048 mm) from the outer edges of the ceiling or roof soffits.

### 4. Delivery and Storage of Materials

#### 4.1 Delivery of Materials:

4.1.1 Materials shall be delivered in the original packages, containers, or bundles bearing the brand-name and manufacturer's (or supplier's) identification.

#### 4.2 Storage of Materials:

4.2.1 Materials shall be kept dry. Materials shall be stacked off the ground, supported on a level platform, and protected from the weather and surface contamination.

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

4.2.3 Metal plaster bases with a factory-attached water-resistive barrier shall be handled carefully in delivery, storage, and erection to prevent puncturing or removal of the factory-attached water-resistive barrier.

### 5. Materials

5.1 Metallic materials including lathing, lathing accessories, furring, furring accessories, and fasteners shall be selected for compatibility to minimize galvanic corrosion between adjacent metallic materials installed in the cement plaster cladding assembly.

#### 5.2 Metal Plaster Bases:

5.2.1 *Expanded Metal Lath*—Specification **C847**, galvanized.

#### 5.2.2 Wire Laths:

5.2.2.1 *Welded Wire Lath*—Specification **C933**.

5.2.2.2 *Woven Wire Lath*—Specification **C1032**.

#### 5.3 Lathing Accessories, Furring Accessories, and Fasteners:

5.3.1 *Lathing Accessories, Furring Accessories, and Fasteners*—Specification **C1861**.

5.3.2 The selection of an appropriate type of material for lathing accessories shall be based upon applicable surrounding climatic and environmental conditions specific to the project location, such as salt air, industrial pollution, high moisture, or humidity.

### 6. Requirements for Substrates to Receive Metal Lathing and Furring

#### 6.1 Framed, or Framed and Sheathed Substrates:

6.1.1 Framing member deflection shall not exceed L/360 (0.33 in. in 10 ft).

6.1.2 Substrates to receive lath shall be straight and true to line within ¼ in. in 10 ft. to receive the specified plaster thickness.

6.1.3 Plywood and oriented strand board sheathing panels shall be marked in accordance with DOC PS1 or DOC PS 2.

6.1.4 Plywood and oriented strand board sheathing panels shall be installed with ⅛ in. (3 mm) minimum panel edge gaps, and panel edges shall be offset 4 in. (10 cm) minimum from wall opening reentrant corners. (See **Fig. 1**.)

NOTE 2—This ⅛-in. (3 mm) gap is intended to accommodate expansion. Linear expansion that is not accommodated by an expansion gap can cause stress on the stucco membrane resulting in stucco cracks.

6.1.5 Moisture content for wood framing members shall not exceed 19 % and shall be less than 16 % for plywood and

<sup>4</sup> Available from American Wood Council (AWC), 222 Catocin Circle SE, Suite 201, Leesburg, VA 20175, <https://www.awc.org>.