



Standard Specification for Non Metallic Plaster Bases (Lath) Used with Portland Cement Based Plaster in Vertical Wall Applications¹

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1. Scope

1.1 This standard provides the minimum specification for use of non metallic plaster bases with portland cement based plaster in vertical wall applications.

1.2 *Units*—The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

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

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards*:²

C926 Specification for Application of Portland Cement-Based Plaster

E631 Terminology of Building Constructions

C1764 Test Methods for Non Metallic Plaster Bases (Lath) Used with Portland Cement Based Plaster in Vertical Wall Applications

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.

3. Terminology

3.1 *Definitions*—For definitions of terms used in these test methods, See Terminology E631.

3.2 *Definitions of Terms Specific to This Standard*:

3.2.1 *portland cement based plaster, n*—in accordance with Specification C926.

3.2.2 *non metallic plaster base (lath), n*—material used as a base for portland cement based plaster that is flat or self furred, that meets or exceeds the requirements set forth in Table 1.

4. Inspection

4.1 Inspection of the material shall be agreed upon between the purchaser and producer or supplier as part of the purchase agreement.

5. Rejection

5.1 Material that fails to conform to the requirements of this specification may be rejected. Rejection should be reported to the producer or supplier promptly and in writing. In case of dissatisfaction with the results of the test, the producer or supplier may make claim for a rehearing.

6. Product Packaging

6.1 Non metallic plaster bases shall be packaged in sheets or rolls in sizes that is convenient for shipping, handling as well as application.

7. Product Marking

7.1 Markings shall include the name of the producer and brand and description of the contents shall be legibly marked on each pallet or roll.

8. Performance Requirements

8.1 Table 1 contains the performance requirements using the test methods described in Test Methods C1764.

9. Keywords

9.1 lath; non metallic plaster base; portland cement based plaster

TABLE 1 Performance Requirements

Property	Method	Requirements
Transverse load	Refer to Test Methods C1764	Specimens shall be tested in both positive and negative directions. Ultimate load is achieved when the specimen no longer maintains the applied test load or maximum mid span deflection exceeds $L/360$. Design loads, in both directions, shall be based on applying a safety factor of 3 to the average ultimate loads which in no case shall be less than 75 lbf/ft ² .
Vertical load	Refer to Test Methods C1764	Not less than 7 lb (3kg)/fastener multiplied by the appropriate safety factor using a 7 in. (178 mm) by 16 in. (406 mm) tributary area/fastener.
Embedment	Refer to Test Methods C1764	Not less than $\frac{1}{2}$ the total length and width of the lath shall be fully embedded minimum $\frac{1}{4}$ in. (6 mm) regardless of furring attachment at fastener unless lath is furred from vertical supports or solid surfaces at least $\frac{1}{4}$ in. (6 mm).
Fastener pull-through resistance	Refer to Test Methods C1764	The greater of design load or 85 lbf (378 N).
Alkali resistance (glass fiber lath only)	Refer to Test Methods C1764	Tensile strength of all exposed and unexposed specimens shall be not less than 120 pli (21 015 N/m).

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