



Designation: D 4546 – 96

AMERICAN SOCIETY FOR TESTING AND MATERIALS
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Standard Test Methods for One-Dimensional Swell or Settlement Potential of Cohesive Soils¹

This standard is issued under the fixed designation D 4546; 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 approval. A superscript symbol (n) indicates an editorial change since the last revision or approval.

1. Scope *

1.1 These test methods cover three alternative laboratory methods for determining the magnitude of swell or settlement of relatively undisturbed or compacted cohesive soil.

NOTE 1—Refer to Section 5 to determine the best method for a particular application.

1.2 The test methods can be used to determine (a) the magnitude of swell or settlement under known vertical (axial) pressure, or (b) the magnitude of vertical pressure needed to maintain no volume change of laterally constrained, axially loaded specimens.

1.3 The values stated in SI units are to be regarded as the standard. The values stated in inch-pound units are approximate.

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:

- D 422 Test Method for Particle-Size Analysis of Soils²
- D 653 Terminology Relating to Soil, Rock, and Contained Fluids²
- D 698 Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³))²
- D 854 Test Method for Specific Gravity of Soils²
- D 1557 Test Method for Laboratory Compaction Characteristics of Soils Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³))²
- D 1587 Practice for Thin-Walled Tube Sampling of Soils²
- D 2216 Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock²
- D 2435 Test Method for One-Dimensional Consolidation Properties of Soils²

- D 3550 Practice for Ring-Lined Barrel Sampling of Soils²
- D 3740 Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction²
- D 3877 Test Methods for One-Dimensional Expansion, Shrinkage, and Uplift Pressure of Soil-Lime Mixtures²
- D 4220 Practices for Preserving and Transporting Soil Samples²
- D 4318 Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils²

3. Terminology

3.1 *Definitions*—Refer to Terminology D 653 for standard definitions of terms.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *heave*, *L*—increase in vertical height, Δh , of a column of in situ soil of height h following sorption of water.

3.2.2 *percent heave or settlement*, %—increase or decrease in the ratio of the change in vertical height, Δh , to the original height of a column of in situ soil; $h \times 100$ or $\Delta h/h \times 100$.

3.2.3 *settlement*, *L*—decrease in vertical height, Δh , of a column of in situ soil of height h .

3.2.4 *swell*, *L*—increase in elevation or dilation of soil column following sorption of water.

3.2.5 *free swell*, %—percent heave, $\Delta h/h \times 100$, following sorption of water at the seating pressure σ_{se} .

3.2.6 *primary swell*, *L*—an arbitrary short-term swell usually characterized as being completed at the intersection of the tangent of reverse curvature to the curve of a dimensional change-logarithm of time plot with the tangent to the straight line portion representing long-term or secondary swell (Fig. 1).

3.2.7 *secondary swell*, *L*—an arbitrary long-term swell usually characterized as the linear portion of a dimensional change-logarithm of time plot following completion of short-term or primary swell (Fig. 1).

3.2.8 *swell index*—slope of the rebound pressure - void ratio curve on a semi-log plot.

3.2.9 *swell pressure*, FE^{-2} —(1) a pressure which prevents the specimen from swelling as obtained in Method C, or (2) that pressure which is required to return the specimen back to its original state (void ratio, height) after swelling in Method A or B.

NOTE 2—Swell pressures by Method C corrected for specimen disturbance may be similar to or slightly greater than those by Method A.

¹ These test methods are under the jurisdiction of ASTM Committee D-18 on Soil and Rock and are the direct responsibility of Subcommittee D18.01 on Structural Properties of Soils.

Current edition approved May 10, 1996. Published December 1996. Originally published as D 4546 – 83. Last previous edition D 4546 – 90.

² Annual Book of ASTM Standards, Vol. 04.08.

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Robert W. Day



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Foundation Engineering Handbook Robert W. Day, 2006 Publisher Description **Foundation Engineering Handbook 2/E** Robert W. Day, 2010-09-13 A fully up to date practical guide to foundation engineering Revised to cover the 2009 International Building Code **Foundation Engineering Handbook Second Edition** presents basic geotechnical field and laboratory studies such as subsurface exploration and laboratory testing of soil rock and groundwater samples The book then discusses the geotechnical aspects of foundation engineering including conditions commonly encountered by design engineers settlement expansive soil and slope stability Details on the performance or engineering evaluation of foundation construction and the application of the 2009 International Building Code are included in this valuable resource **FOUNDATION ENGINEERING HANDBOOK SECOND EDITION COVERS** Subsurface exploration Laboratory testing Soil mechanics Shallow and deep foundations Bearing capacity and settlement of foundations Foundations on expansive soil Slope stability Retaining walls Foundation deterioration and cracking Geotechnical earthquake engineering for soils foundations and retaining walls Grading and other soil improvement methods Foundation excavation underpinning and field load tests Geosynthetics and instrumentation 2009 International Building Code regulations for soils and foundations **Annual Book of ASTM Standards** American Society for Testing and Materials, 2007 **Soil Testing Manual** Robert W. Day, 2001 The essential tool for geotechnical and soil engineering fieldwork Written by AIA award winning civil engineer Robert W. Day Soil

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Dredge Material Evaluation and Utilization Plan for New Jersey, 2003 **Unsaturated Soil Engineering Practice** Sandra L. Houston, Delwyn G. Fredlund, 1997 GSP 68 contains 11 papers presented at a technical session of the First National Conference of the ASCE Geo Institute held in Logan Utah July 16 19 1997 Standard Specifications for Transportation Materials and Methods of Sampling and Testing: Tests American Association of State Highway and Transportation Officials, 1995

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