



## Standard Test Methods for One-Dimensional Swell or Settlement Potential of Cohesive Soils<sup>1</sup>

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 reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

### 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 9 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 Soils<sup>2</sup>
- D 423 Terminology Relating to Soil, Rock, and Contained Fluids<sup>2</sup>
- D 6038 Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 N·m/600 kN·m/m<sup>3</sup>)<sup>2</sup>
- D 854 Test Method for Specific Gravity of Soils<sup>2</sup>
- D 1557 Test Method for Laboratory Compaction Characteristics of Soils Using Modified Effort (36,000 N·m/600 kN·m/m<sup>3</sup>)<sup>2</sup>
- D 1587 Practice for Thin-Walled Tube Sampling of Soils<sup>2</sup>
- D 2216 Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock<sup>2</sup>
- D 2435 Test Method for One-Dimensional Consolidation Properties of Soils<sup>2</sup>

<sup>1</sup> These test methods are under the jurisdiction of ASTM Committee D18 on Soil and Rock and are the direct responsibility of Subcommittee D18.01 on Structural Properties of Soils.

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<sup>2</sup> Annual Book of ASTM Standards, Vol. 04.08.

- D 3550 Practice for Ring-Lined Barrel Sampling of Soils<sup>2</sup>
- 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 Construction<sup>2</sup>
- D 3877 Test Methods for One-Dimensional Expansion, Shrinkage, and Uptake Pressure of Soil-Lime Mixtures<sup>2</sup>
- D 4220 Practices for Preserving and Transporting Soil Samples<sup>2</sup>
- D 4318 Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils<sup>2</sup>

### 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,  $\Delta h$* —increase in vertical height,  $\Delta h$ , 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,  $\Delta h$ , to the original height of a column of in situ soil;  $h > 100$  or  $\Delta h/h < 100$ .

3.2.3 *settlement,  $\delta$* —decrease in vertical height,  $\Delta h$ , 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,  $L_f$* —percent heave,  $\Delta h/h > 100$ , following sorption of water at the seating pressure  $\sigma_{se}$ .

3.2.6 *primary swell,  $L_p$* —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,  $L_s$* —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,  $P_f$* —(f) a pressure which prevents the specimen from swelling as obtained in Method C, or (c) the 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.

## Astm D 4546

**J. Paul Guyer**

## **Astm D 4546:**

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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 Day Soil Testing

Manual gives engineers geologists contractors on site construction managers anyone who needs answers on the characteristics of soil a convenient complete source of today's most authoritative solutions This reader friendly guide simplifies each step of every process from selecting appropriate methods to analyzing your results Filled with handy tables charts diagrams and formulas that eliminate time wasting and frustrating searches and calculations this manual gives you better results in less time as you Get expert approaches to testing altered and disturbed soils Set up a mobile field lab with complete directions Use rip out sheets for on site reference and checks Get quick access to data on grading instrumentation technical methods procedure guidelines and preferred practices Draw authoritative conclusions on fill compaction Measure cohesiveness shear strength settlement permeability and other critical parameters Construct a subsoil profile *Annual Book of ASTM Standards* ASTM International,American Society for Testing and Materials,2003 *Forensic Geotechnical and Foundation Engineering* Robert W. Day,1999 Learn how to conduct a professional forensic geotechnical and foundation investigation Clearly written and easy to use this authoritative book shows you step by step how to INVESTIGATE damage deterioration or collapse in a structure EVALUATE problems caused by settlement expansive soil slope movement moisture intrusion and more INVESTIGATE damage from earthquakes and other natural causes DETERMINE what caused the damage DEVELOP repair recommendations PREPARE files and reports AVOID civil liability No matter what caused the structural damage this book will help you pinpoint it and if necessary suggest a remedy With advice on all aspects of the process from accepting the assignment to testifying compellingly this book is your all in one guide to geotechnical and foundation investigations in forensic engineering **Geotechnical Engineering Design** Ming Xiao,2015-03-26 An accessible clear concise and contemporary course in geotechnical engineering design covers the major in geotechnical engineering packed with self test problems and projects with an on line detailed solutions manual presents the state of the art field practice covers both Eurocode 7 and ASTM standards for the US *Geotechnical Engineers Portable Handbook, Second Edition* Robert W. Day,2012-10-01 Instant access to the latest geotechnical engineering data Fully updated to include the 2012 International Building Code IBC Geotechnical Engineer's Portable Handbook Second Edition features a wealth of on the job geotechnical and construction related information in a convenient quick reference format This practical resource is filled with essential data formulas and guidelines you can access right away Detailed tables charts graphs and illustrations are included throughout the book for ease of use in the field Coverage includes Field exploration Laboratory testing Soil and rock classification Phase relationships Effective stress and stress distribution Shear strength Permeability and seepage Settlement analyses Bearing capacity analyses Pavement and pipeline design Expansive soil Slope stability Geotechnical earthquake engineering Erosion analyses Retaining walls Deterioration Foundations Grading and other site improvement methods Groundwater and percolation tests Excavation underpinning and field lead tests Geosynthetics Instrumentation International Building Code regulations for soils International Building Code regulations for foundations ASTM Standards on

Environmental Sampling American Society for Testing Materials,1997 A complete reference of American Society for Testing and Materials standards on environmental sampling covering standards for sampling soil water particulate matter and vapors in workplaces wells laboratories and natural areas with guides for safe practices in areas such as construction chemical testing groundwater monitoring and air monitoring at waste management facilities Annotation copyright by Book News Inc Portland OR Resilient Design and Construction of Geostructures Against Natural Hazards Behzad Fatahi,Shen-En Chen,Jun Hu,2021-07-10 This volume contains state of the engineering practice and recent research in the field of built infrastructure and natural hazards It is expected that the book will help engineers and researchers to design and built resilient infrastructures in challenging conditions e g earthquakes and climate change while optimising the design and minimising the future maintenance cost In particular new design and construction techniques with reference to major infrastructure projects such as tunneling and transport infrastructure are discussed *Standard Plans* California.

Department of Transportation,2018 **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

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