

ANSI/NFSI B101.5-2014

American National Standard

B101.5 Standard Guide for Uniform Labeling Method for Identifying the Wet Static and Wet Dynamic Coefficient of Friction (Traction) of Floor Coverings, Floor Coverings with Coatings, and Treated Floor Coverings

(Product Information Marking)

Secretariat



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American National Standard

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Foreword

(This Foreword is not part of the proposed ANSI/NFSI B101.5-2014 Standard)

This standard was developed by a subcommittee of the National Floor Safety Institute (NFSI) B101 Main Standards Committee, national in scope, functioning under the procedures of the American National Standards Institute with the NFSI as the ANSI Accredited Standards Developer. The NFSI was founded in 1997 with the mission: “To aid in the prevention of slips, trips and falls through education, research and standards development.” The development of the ANSI/NFSI B101.5-2014 Standard is a direct result of the mission of the NFSI answering a need for consumer education to ameliorate the effects of falls.

As a standards developing organization, NFSI sought and was accredited by the Executive Council of ANSI on June 6, 2006 to develop standards addressing the prevention of slips, trips and falls. The American National Standard/NFSI B101.5-2014: *Standard Guide for Uniform Labeling Method for Identifying the Wet Static and Wet Dynamic Coefficient of Friction (Traction) of Floor Coverings, Floor Coverings with Coatings, and Treated Floor Coverings* answers the perceived need for this standard, through an educational approach, to stem the growing number of slips and falls as they relate to insufficient walkway surface traction by defining three separate ranges of traction. Given that the consumer of floor coverings is rarely provided information relevant to the slip resistance characteristics of the floor coverings they purchase, and are unable to comprehend technical information relevant to the measurement of coefficient of friction (COF) the need for an easy-to-understand, consumer driven label using a tested symbol graphic to do so has been brought forth.

The B101 Standards series are targeted at slip, trip and fall prevention which, in this context, set standards for maintaining a safe wet coefficient of friction on various walking surfaces members of the public may encounter. The B101.5 Standard is a part of that development project and exists to provide a consumer friendly symbol graphic to be displayed on these products so purchasers of flooring and floor maintenance products are educated and informed of the inherent slip resistance of that particular product. By referring to this graphic the consumer can make an educated buying decision on flooring and floor maintenance products by being easily able to compare the relative slip resistance properties of competing products. By affixing the graphic this standard establishes a product labeling method which specifies three levels of traction derived from the ANSI/NFSI B101.1-2009 *Test Method for Measuring Wet SCOF of Common Hard-Surface Floor Materials standard*. and/or three levels of traction derived from the ANSI/NFSI B101.3-2012 *Test Method For Measuring Wet DCOF of Common Hard Surface Floor Materials*.

The symbol graphic presented in the standard was developed from a field of several collected by the accredited standards developer. From this collection the B101.5 Subcommittee selected three (3) symbol graphics for purposes of referent testing. In turn a nationally recognized independent ergonomic and safety signage research firm tested these referents using the protocols and meeting the guidelines of the ANSI Z535.3 Criteria for Safety Symbols. Based upon the results of testing a diverse and most likely affected consumer population the gauge symbol is the validated norm for this informational standard.

This standards use of color is, in part, based on those developed by the ANSI Z535.1-2006 Safety Colors Standard, which focused on improving labeling safety through uniformity in safety color coding. Like the ANSI Z535.1 standard, the safety color codes used in this standard were selected to provide the best feasible discrimination for observers with either normal or color-

deficient (colorblind) vision.

Neither the B101 Main Standards Committee, nor the accredited standards developer, perceive that this standard is perfect or in its ultimate form. It is recognized that new developments in communications are to be expected, and that revisions of the standard may be necessary as the combination of science and art progresses and further experience is gained. The committee does believe, however, that the standard in its present form provides a comprehensive a guide when selecting flooring materials and floor maintenance products. To this end it is intended that the requirements contained herein will be adopted by the affected general public, contractors, property owners, and relevant professionals as they seek to make a more informed decision in selecting appropriate floor materials.

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The information in this publication was considered technically sound by the consensus of persons engaged in the development and approval of the document at the time it was developed. Consensus does not necessarily mean that there is unanimous agreement among every person participating in the development of this document.

NFSI standards and guideline publications, of which the document contained herein is one, are submitted and developed through the ANSI voluntary consensus standards development process. This process brings together volunteers and/or seeks out the views of persons who have an interest in the topic covered by this publication. While the NFSI administers the process it does not write the document and it does not independently test, evaluate, or verify the accuracy or completeness of any information or the soundness of any judgments contained in these standards and guideline publications.

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This standard was processed and approved for submittal by the NFSI B101 Committee on Safety Requirements for Slip, Trip and Fall Prevention. Committee approval of the standard does not necessarily imply that all committee members voted for its approval. At the time it approved this standard, the B101 Standards Committee had the following members:

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Accident Prevention Services

American Slip Meter

CED Investigative Technologies

Cintas Corporation

Concrete Polishing Association of America

Crossville, Inc.

Engineering Systems, Inc. (ESI)

GT Grandstands, Inc.

Impact General, Inc.

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Subcommittee B101.5 on Uniform Labeling Method, which developed this standard, had the following members:

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Thomas F. Bresnahan, Secretary

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Accuform Signs

Bresnahan Consulting Associates

Everglow NA, Inc.

Marble Institute of America

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B101.5 Standard Guide for Uniform Labeling Method for Identifying the Wet Static and Wet Dynamic Coefficient of Friction (Traction) of Floor Coverings, Floor Coverings with Coatings, and Treated Floor Coverings

Section 1 Scope/Application/Purpose

1.1 Scope: This guideline sets forth a uniform product labeling method which identifies the wet static and wet dynamic coefficient of friction (traction) of floor coverings, floor coverings with coatings, and treated floor coverings.

1.2 Application: This standard applies to floor products used primarily on public and private areas where pedestrians are not supervisory controlled. The term “floor products” refers to floor coverings, coatings, and treatments intended for floor coverings except carpeting, rugs, mats, runners, and artificial turf.

1.3 Purpose: The purpose of this standard is to offer, at the point of product sale, guidance to users/purchasers on the traction capabilities of the contents of the package through display of labels and markings.

Section 2 Reference to Standards and Other Documents

2.1 ANSI/NFSI B101.1-2009 Test Method for Measuring Wet SCOF of Common Hard-Surface Floor Materials

2.2 ANSI/NFSI B101.3-2012 Test Method For Measuring Wet DCOF of Common Hard Surface Floor Materials

2.3 ANSI Z535 Signs and Colors Standards Series¹

Section 3 Definitions

3.1 label (informational) - any printed or stenciled information affixed or otherwise applied to a container or package to inform the user/purchaser of the degree of traction provided.

3.2 package / packaging / container

3.2.1 package (consumer) - a primary and / or secondary container designed to contain, store, and protect from the point of manufacture to the point of use (a product intended for household or individual use)

3.2.2 packaging - wrapping or bundling a single item or bundling a set or quantity of the same item into a single unit.

3.2.3 container - a portable receptacle designed to provide material or item integrity for storage, distribution, retailing and use.

¹ See ANSI Z535 2006 Color Chart, NEMA Rosslyn, VA 22209 for more information regarding Pantone Matching System.