

*ANSI/ESD STM97.2-2016*

# *ESD Association Standard Test Method*

**ANSI/ESD STM97.2-2016**

*Revision of ANSI/ESD STM97.2-2006*

*For the Protection of Electrostatic  
Discharge Susceptible Items*

*Footwear/Flooring System – Voltage  
Measurement in  
Combination with a Person*



*Electrostatic Discharge Association  
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Rome, NY 13440*

*An American National Standard  
Approved November 17, 2016*



*ESD Association Standard Test Method for  
the Protection of Electrostatic Discharge  
Susceptible Items -*

*Footwear/Flooring System –  
Voltage Measurement in  
Combination with a Person*

Approved March 18, 2016  
EOS/ESD Association, Inc.



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**FOREWORD**

This standard test method<sup>1</sup> is intended to provide test methods for measuring the voltage on a person in combination with footwear and floor materials as a system. This standard test method covers all floor materials used to control Electrostatic Discharge (ESD) including floor mats, floor coverings, coatings, paints and floor finishes together with footwear.

This standard test method is limited to defining procedures for measuring the voltage accumulation on personnel in combination with footwear and floor materials. This test method provides data that is relevant in the user's specific environment, application and controlled laboratory conditions.

A common source of electrostatic voltage on a person in a work environment is when a foot separates from the floor while walking. The effect of this generation and accumulation of electrostatic charge can be minimized with appropriate selection of the footwear/floor system.

To effectively control voltage on personnel, floor materials must be used in conjunction with static control footwear. A footwear/flooring system that is conductive enough to discharge a person also may pose a safety hazard. The work performed with these systems often entails the use of tools and test instruments that operate at voltages high enough to cause electrical shock. The presence of a footwear/flooring system tested using the methods described in this document will not guarantee personnel safety.

This document was originally designated ESD STM97.2-1999 and approved on February 7, 1999. ANSI/ESD STM97.2-2006 was a reaffirmation, re-designation of ESD STM97.2-1999 and was approved on February 26, 2006. ANSI/ESD STM97.2-2016 is a revision of ANSI/ESD STM97.2-2006 and was approved on March 18, 2016.

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<sup>1</sup> **ESD Association Standard Test Method (STM):** A definitive procedure for the identification, measurement and evaluation of one or more qualities, characteristics or properties of a material, product, system or process that yield **reproducible test** results.

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