



## **ANSI/RESNA WC-2:2009**

**American National Standard  
for Wheelchairs –**

**Volume 2:  
Additional Requirements for  
Wheelchairs (including Scooters)  
with Electrical Systems**

This standard applies to powered wheelchairs, including scooters, and accessories for wheelchairs and scooters. It specifies test methods and requirements for: dynamic stability; brake effectiveness; energy consumption; maximum speed, acceleration and deceleration; obstacle climbing ability; climatic testing; power and control system; and electromagnetic compatibility.

### **These standards affect:**

The Food and Drug Administration that manages wheelchairs as medical devices

The Centers for Medicare & Medicaid Services (CMS) and Medicare Pricing, Data Analysis and Coding (PDAC) who establish coding guidelines and establish policy for the provision of mobility technologies

The Department of Veterans Affairs – Prosthetics and Sensory Aids Service – Wheelchair purchasing contracts

Manufacturers of wheelchairs, scooters and mobility devices

Researchers

Designers and test laboratories of mobility devices

Users/Caregivers

**ANSI/RESNA WC-2** consists of the following sections under the general title **Wheelchairs**:

- Section 2: **Determination of dynamic stability of electrically powered wheelchairs**
- Section 3: **Determination of effectiveness of brakes**
- Section 4: **Energy consumption of electrically powered wheelchairs and scooters for determination of theoretical distance range**
- Section 6: **Determination of maximum speed, acceleration and deceleration of electrically powered wheelchairs**
- Section 9: **Climatic tests for electrically powered wheelchairs**
- Section 10: **Determination of obstacle-climbing ability of electrically powered wheelchairs**
- Section 14: **Power and control systems for electrically powered wheelchairs – Requirements and test methods**
- Section 21: **Requirements and test methods for electromagnetic compatibility of electrically powered wheelchairs and motorized scooters**

**Cost: \$500**

**Publication Date: October 2009**

**How to Order:** Standards are available for purchase through RESNA. Go to **[www.resna.org/at-standards](http://www.resna.org/at-standards)**.

**The RESNA Standards Committee on Wheelchairs is actively recruiting additional members.** If interested, go to **<http://www.resna.org/at-standards>**

RESNA's Assistive Technology Standards are approved for publication as American National Standards by the American National Standards Institute (ANSI), ensuring that the standards development process meets the Institute's essential requirements for openness, balance, consensus and due process.

RESNA, the Rehabilitation Engineering & Assistive Technology Society of North America, is the premier professional membership organization dedicated to promoting the health and well-being of people with disabilities through increasing access to technology solutions.

**Find out more at [www.resna.org](http://www.resna.org).**