

# American National Standard



**National  
Waste & Recycling  
Association<sup>SM</sup>**

Collect. Recycle. Innovate.

*for Equipment Technology and  
Operations for Wastes and  
Recyclable Materials ---*

***Mobile Wastes and Recyclable  
Materials Collection,  
Transportation, and  
Compaction Equipment —  
Safety Requirements***

Includes the

**Provisional Amendment  
ANSI/NW&RA Z245.1 (PA)**

Approved August 2, 2014

**NATIONAL WASTE & RECYCLING ASSOCIATION  
(FORMERLY WASTE EQUIPMENT TECHNOLOGY ASSOCIATION/NATIONAL SOLID  
WASTES MANAGEMENT ASSOCIATION/ENVIRONMENTAL INDUSTRY  
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**AMERICAN NATIONAL STANDARD**

**ANSI Z245.1-2012**

**American National Standard**  
for Equipment Technology and Operations for Wastes and  
Recyclable Materials-

Mobile Wastes and Recyclable Materials Collection, Transportation,  
and Compaction Equipment –

**Safety Requirements**

Secretariat  
**National Waste & Recycling Association**

Approved September 28, 2012  
**American National Standards Institute, Inc.**

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## ANSI Z245.1-2012

### American National Standard

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## ANSI Z245.1-2012

**FOREWORD** (This foreword is not part of American National Standard Z245.1-2012)

This revised American National Standard (ANS) applies to the construction, reconstruction, modification, care, maintenance, operation, and use of mobile waste or recyclable materials collecting, transportation and compacting equipment. The standard identifies requirements for refuse collecting and compacting equipment mounted on refuse truck chassis: rear-loading, front-loading, and side-loading compacting equipment; roll-off and hoist-type equipment; grapple vehicles; satellite vehicles; waste transfer trailers; recycling collection vehicles; and mobile equipment with container and cart lifting equipment.

The standard does not apply to the truck chassis/cab upon which the waste or recyclable materials collecting and compacting equipment is mounted except for certain provisions as stated in Section 10.1.1 and Section 12.

The first and second revisions of this standard (ANSI Z245.1-1975 and ANSI Z245.1-1984) addressed mobile collecting and compacting equipment and stationary compacting equipment. The third, fourth, fifth, and current revision (ANSI Z245.1-1992, ANSI Z245.1 –1999, ANSI Z245.1 –2008, ANSI Z245.1-2012) contain requirements for mobile collecting and mobile compacting equipment only. Requirements for newly manufactured and remanufactured stationary compactors are contained in *American National Standard for - Stationary Compactors - Safety Requirements*, ANSI Z245.2-1992 and later revisions, and pertain to stationary compactors manufactured after the effective date of that standard. Stationary compactors manufactured before that date are still covered by ANSI Z245.1-1975 and ANSI Z245.1-1984.

This standard revises ANSI Z245.1-2008. Provisions of ANSI Z245.1-2008 remain in effect and are immediately applicable to all new mobile collecting and compacting equipment.

Effective dates for ANSI Z245.1-2012:

24 months after the approval date of this standard for all new mobile collecting and mobile compacting equipment.

Sections 4.5, 4.6, 5.1.2, and Sections 6, 7 and 13 shall apply for all existing mobile equipment 24 months after the approval date of this standard regardless of the date of manufacture.

Requests for interpretation and suggestions for improvement of this American National Standard are invited. They should be sent to the Secretary, ASC Z245, c/o Environmental Industry Associations, 4301 Connecticut Ave., NW, Suite 300, Washington, DC 20008.

## AMERICAN NATIONAL STANDARD

## ANSI Z245.1-2012

This revised American National Standard was processed and approved for submittal to ANSI by the Accredited Standards Committee on Equipment Technology and Operations for Wastes and Recyclable Materials, Z245. Committee approval of this standard does not necessarily imply that all committee members voted for its approval. At the time it approved this revised standard, the Z245 Committee had the following members:

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Jerald Zanzig, Vicechair  
Janice Comer Bradley, Secretary

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## AMERICAN NATIONAL STANDARD

## ANSI Z245.1-2012

American National Standard for Equipment Technology and Operations for  
Wastes and Recyclable Materials —

Mobile Wastes and Recyclable Materials Collection, Transportation, and Compaction  
Equipment —  
Safety Requirements

### 0 Introduction

This standard was developed by American National Standards Institute Accredited Standards Committee Z245 Subcommittee 1 on Mobile Collection Equipment and approved by Accredited Standards Committee Z245.

This standard revises the collection, transportation and compaction equipment safety requirements found in ANSI Z245.1-2008 by providing specific requirements for construction, maintenance and operation necessary to ensure the safe manufacture and operation of the mobile equipment.

The requirements contained in this standard pertain to new mobile collection equipment as produced by the manufacturer. New requirements and revisions are not intended to be retroactive for waste collection vehicles manufactured to comply with earlier revisions of this standard.

### 1 Scope

**1.1** This American National Standard is applicable to all persons engaged in the manufacture, reconstruction, modification, operation, cleaning, maintenance, service, or repair of mobile collecting, transporting, and compacting equipment.

Exception: This standard does not address equipment used for the collection, transportation, or disposal of hazardous or flammable materials regulated by Title 40 Code of Federal Regulations (CFR) Part 263 or 49 CFR Parts 171 through 180.

**1.2** Sections 8 to 12 provide equipment safeguards and features and dual drive configuration requirements that shall apply to:

- a) mobile rear-loading, side-loading, front-loading, and mechanized container collecting equipment used to receive, compact, transport, and unload waste or recyclable materials;
- b) mobile tilt-frame and hoist-type equipment commonly used to pick up, transport, unload, and set down open top or enclosed waste or recyclable materials containers;
- c) vehicles used to receive, separate, densify, transport, and unload recyclable wastes;
- d) grapple loaders that pick up, load and transport bulky uncontainerized special waste like wood waste or white goods;
- e) trailers used to transfer waste from one waste processing or disposal facility to another;