American National Standard

National Waste & Recycling Association℠

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*

ANSI Z245.1 - 2017

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Z245.1-2017

# **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 January 9, 2017
**American National Standards Institute, Inc.**

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# Contents


| | | |
|---|---|---|
| Foreword | (This foreword is not part of American National Standard Z245.1) | iii |
| 0 | Introduction | 1 |
| 1 | Scope | 2 |
| 2 | Normative references | 3 |
| 3 | Definitions | 4 |
| 4 | Manufacture, mounting, installation, reconstruction, and modification | 20 |
| 5 | Instructions for operation and maintenance | 22 |
| 6 | Operational requirements – employer responsibilities | 24 |
| 7 | Operational requirements – employee responsibilities | 28 |
| 8 | Safety signs for mobile equipment | 34 |
| 9 | General mobile equipment safeguards and features | 46 |
| 10 | Specific mobile equipment safeguards and features | 55 |
| 11 | Vehicle conspicuity | 59 |
| 12 | Minimum requirements for a dual drive position | 66 |
| 13 | Safety program and employee training | 68 |
| Annex A | (Informative) | 70 |
| Annex B | (Informative) | 71 |
| Annex C | (Informative) | 72 |

# Table of Figures


Figure 1 Front Loading Compaction Equipment ..... 11
Figure 2 Hoist-type equipment ..... 11
Figure 3 Mechanized side-loader ..... 12
Figure 4 Recycling collection vehicles ..... 12
Figure 5 Rear-loading compacting equipment ..... 13
Figure 6 Hydraulic cart lifter ..... 13
Figure 7a Winch System ..... 14
Figure 7b Hydraulic (reeving) system ..... 14
Figure 7c Container operation of rear-loading compacting equipment ..... 15
Figure 7d Hydraulic dumping system ..... 15
Figure 7e Rear-loader container latchup mechanism ..... 16
Figure 8 Side-loading compaction equipment ..... 16
Figure 9 Automated side-loader ..... 17
Figure 10 Tilt-frame equipment ..... 18
Figure 11 Refuse transfer trailer ..... 19
Figure 12 Grapple loader and grapple truck ..... 19
Figure 13 Mobile compactor rear-riding step configuration ..... 50
Figure 14 Static Vertical Load ..... 52
Figure 15 Toe Clearance ..... 53
Figure 16 Horizontal Step-Across Distance ..... 53
Figure 17 Handhold Designs ..... 54
Figure 18 Front-loader conspicuity markings ..... 60
Figure 19 Side-loader (rectangular) conspicuity markings ..... 61
Figure 20 Side-loader (cylindrical) conspicuity markings ..... 62
Figure 21 Rear-loader conspicuity markings ..... 63
Figure 22 Roll-off (hoist-type) vehicle markings ..... 64
Figure 23 Hoist-type (“lugger”) conspicuity markings ..... 65
Figure 24 Grapple loader truck conspicuity markings ..... 65
Figure B1 Front-loader Hopper and Fork Compatibility Dimensions ..... 71

## Foreword (This foreword is not part of American National Standard Z245.1)

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. This 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.

This 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, sixth (including the provisional amendment), and current revision ((ANSI Z245.1-1992, ANSI Z245.1 –1999, ANSI Z245.1 –2008, ANSI Z245.1-2012, ANSI Z245. 1-2012 (PA)) 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 Z245.1-2012. Provisions of ANSI/NW&RA Z245.1 (PA) approved August 2, 2014 remain in effect and are immediately applicable to all new mobile collecting and compacting equipment.

Effective dates for ANSI Z245.1-2017:

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 National Waste and Recycling Association, 1550 Crystal Drive, Suite 804, Arlington, Virginia 22202 or emailed to secretary@wasterecycling.org.

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. Two Z245 Committee's approved this revised standard, or portions thereof. At the time it approved this revised standard, the Z245 Committee had the following members:

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The ASC Z245 Subcommittee 1 (Mobile Equipment) that drafted this revised American National Standard had the following members:

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**AMERICAN NATIONAL STANDARD** **ANSI Z245.1-2017**

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 Z245.1-2012 by providing specific requirements for construction, maintenance and operation necessary to ensure the safe manufacture and operation of the mobile equipment. Provisions of ANSI/NW&RA Z245.1 (PA) approved August 2, 2014 remain in effect and are immediately applicable to all new mobile collecting and compacting 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 un-containerized special waste like wood waste or white goods;

e) trailers used to transfer waste from one waste processing or disposal facility to another;

f) satellite vehicles commonly used to receive and transport waste or recyclable materials for unloading into other mobile waste or recyclable materials collecting equipment; and

g) container and cart lifting devices used to lift, dump, and return containers.