



SLOVENSKI STANDARD
SIST EN 474-11:2007

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Stroji za zemeljska dela - Varnost - 11. del: Zahteve za kompaktorje zemlje in odpadkov

Earth-moving machinery - Safety - Part 11: Requirements for earth and landfill compactors

Erdbaumaschinen - Sicherheit - Teil 11: Anforderungen für Erd- und Müllverdichter

Engins de terrassement - Sécurité - Partie 11: Prescriptions applicables aux compacteurs de remblais et de déchets

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53.100 Stroji za zemeljska dela Earth-moving machinery

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English Version

Earth-moving machinery - Safety - Part 11: Requirements for earth and landfill compactors

Engins de terrassement - Sécurité - Partie 11: Prescriptions applicables aux compacteurs de remblais et de déchets

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This European Standard was approved by CEN on 17 April 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Contents

Page

Foreword.....3

Introduction4

1 Scope5

2 Normative references5

3 Terms and definitions5

4 List of additional significant hazards6

5 Safety requirements and/or measures6

6 Information for use8

Annex A (normative) List of additional significant hazards – Earth and landfill compactors9

Annex B (informative) Illustrations10

Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC11

Bibliography12

ITeH STANDARD PREVIEW
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Figures

[SIST EN 474-11:2007](https://standards.iteh.ai/catalog/standards/sist/ab2ac10a-b642-4eb7-9b89-8912736c6b1e/en-474-11-2007)

[https://standards.iteh.ai/catalog/standards/sist/ab2ac10a-b642-4eb7-9b89-](https://standards.iteh.ai/catalog/standards/sist/ab2ac10a-b642-4eb7-9b89-8912736c6b1e/en-474-11-2007)

[8912736c6b1e/en-474-11-2007](https://standards.iteh.ai/catalog/standards/sist/ab2ac10a-b642-4eb7-9b89-8912736c6b1e/en-474-11-2007)

Figure B.1 — Earth and landfill compactors with loading equipment 10

Figure B.2 — Earth and landfill compactors with dozing equipment..... 10

Tables

Table A.1 — List of additional significant hazards..... 9

Foreword

This document (EN 474-11:2006) has been prepared by Technical Committee CEN/TC 151 "Construction equipment and building material machines — Safety", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2007, and conflicting national standards shall be withdrawn at the latest by November 2008.

This European Standard supersedes EN 474-11:1998.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive.

For relationship with EU Directive, see informative Annex ZA, which is an integral part of this document.

For bibliographic references, see EN 474-1:2006.

EN 474 "Earth-moving machinery — Safety" comprises the following parts:

- Part 1: General requirements
- Part 2: Requirements for tractor-dozers
- Part 3: Requirements for loaders
- Part 4: Requirements for backhoe-loaders
- Part 5: Requirements for hydraulic excavators
- Part 6: Requirements for dumpers
- Part 7: Requirements for scrapers
- Part 8: Requirements for graders
- Part 9: Requirements for pipelayers
- Part 10: Requirements for trenchers
- Part 11: Requirements for earth and landfill compactors
- Part 12: Requirements for cable excavators

This European Standard is intended for use in combination with Part 1 of the series.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

This part of EN 474 is a type C standard as stated in EN ISO 12100-1:2003.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this European Standard.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

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1 Scope

This part of EN 474 deals with all significant hazards, hazardous situations and events relevant to earth and landfill compactors as defined in EN ISO 6165:2006, when they are used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer (see Clause 4).

Other compactors such as roller compactors, rammer compactors and vibratory plates, which are dealt with in EN 500-1:2006 and EN 500-4:2006 are not covered in EN 474.

The requirements of this part are complementary to the common requirements formulated in EN 474-1:2006.

This part does not repeat the requirements from EN 474-1:2006, but adds or replaces the requirements for application for earth and landfill compactors.

This part specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards, hazardous situations and events during commissioning, operation and maintenance of earth and landfill compactors. This part does not deal with the specific hazards related to derivative use.

This European Standard is not applicable to earth and landfill compactors manufactured before the date of publication of this European Standard by CEN.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 474-1:2006, *Earth-moving machinery — Safety — Part 1: General requirements*

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EN 12643:1997, *Earth-moving machinery — Rubber-tired machines — Steering requirements (ISO 5010:1992, modified)*

EN ISO 7096:2000, *Earth-moving machinery — Laboratory evaluation of operator seat vibration (ISO 7096:2000)*

EN ISO 12100-1:2003, *Safety of machinery — Basic concepts, general principles for design — Part 1: Basic terminology, methodology (ISO 12100-1:2003)*

ISO 7546:1983, *Earth-moving machinery — Loader and front loading excavator buckets — Volumetric ratings*

ISO 10263-4:1994, *Earth-moving machinery — Operator enclosure environment — Part 4: Operator enclosure ventilation, heating and/or air-conditioning test method*

ISO 14397-1:2002, *Earth-moving machinery — Loaders and backhoe loaders — Part 1: Calculation of rated operating capacity and test method for verifying calculated tipping load*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 474-1:2006, EN ISO 12100-1:2003 and the following apply.

NOTE 1 Terminology for earth and landfill compactors is specified in ISO 8811:2000 and illustrated in Annex B of this European Standard.

NOTE 2 Definitions used in EN and ISO standards referred to in this European Standard are also valid for this document..

3.1 landfill compactor
self-propelled, wheeled compaction machine having front-mounted equipment with a dozing or loading attachment and wheels provided with the means to crush and compact waste material, and which also moves, grades and loads soil, landfill or sanitary (refuse) materials through its own motion (see EN ISO 6165:2006)

3.2 dozing equipment
equipment for moving or grading material through a motion of the machine

3.3 loading equipment
equipment for loading, transporting, distributing, filling and grading material

3.4 drums
steel wheels affixed to the axles with choppers, padfoot, sheepfoot or grid drums etc. which are used to cut, demolish or compact material

4 List of additional significant hazards

See Annex A.

NOTE Annex A (normative) contains all the significant hazards, hazardous situations and events, as far as they are dealt with in this European Standard, identified by risk assessment as significant for this type of machinery and which require action to eliminate or reduce the risk.

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5 Safety requirements and/or measures

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5.1 General

Earth and landfill compactors shall comply with the requirements of EN 474-1:2006, as far as not modified or replaced by the requirements of this part.

5.2 Access

EN 474-1:2006, 5.2, applies with the following exception:

For earth and landfill compactors the height of the first step shall be measured from the horizontal reference plan of the drum body.

5.3 Operator's station

5.3.1 General

EN 474-1:2006, 5.3 applies with the additions in 5.3.2 to 5.3.7.

5.3.2 Cab

Earth and landfill compactor shall be fitted with a cab.

5.3.3 Cab protection

The bottom part of the cab shall be able to protect the operator against penetrating material.

5.3.4 Cab door guard

EN 474-1:2006, 5.3.2.3 applies with the addition that if the lower part of the cab door on an earth and landfill compactor is fitted with glass, a guard shall protect it unless the glazing provides equivalent protection against penetrating objects (see e. g. ECE-R 43, Annex 10, Clause 4).

5.3.5 Deodorising filter

EN 474-1:2006, 5.3.2.6 applies with addition that provision shall be made for the installation of a deodorising filter.

5.3.6 Air-conditioning

Earth and landfill compactors shall be so designed and built that an air conditioning unit can be fitted according to ISO 10263-4:1994.

5.3.7 Operator's seat

EN 474-1:2006, 5.4.1.3 applies with the addition that the seat shall meet EN ISO 7096:2000 for the input spectral class EM3.

NOTE According to EN ISO 7096:2000, 1.2.2, there is no requirement on seat vibration damping for seats used in earth and landfill compactors.

5.4 Fenders

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EN 474-1:2006, 5.14.7 does not apply to earth and landfill compactors.

5.5 Steering system

SIST EN 474-11:2007

EN 474-1:2006, 5.6.2 applies with the addition that the steering test shall be made according to EN 12643:1997 with rubber tyres fitted.

5.6 Braking system

EN 474-1:2006, 5.7 applies with the exception that the test of the braking system shall be made with rubber tyres fitted but with the operating mass of the compactor as specified by the manufacturer with steel-wheels fitted.