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NSAI Standards

Irish Standard
I.S. EN 474-1:2006+A6:2019

Earth-moving machinery - Safety - Part 1: General requirements

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I.S. EN 474-1:2006+A6:2019

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National Foreword

I.S. EN 474-1:2006+A6:2019 is the adopted Irish version of the European Document EN 474-1:2006+A6:2019, Earth-moving machinery - Safety - Part 1: General requirements

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 474-1:2006+A6

October 2019

ICS 53.100

Supersedes EN 474-1:2006+A5:2018

English Version

Earth-moving machinery - Safety - Part 1: General requirements

Engins de terrassement - Sécurité - Partie 1: Prescriptions générales

Erdbaumaschinen - Sicherheit - Teil 1: Allgemeine Anforderungen

This European Standard was approved by CEN on 1 October 2017 and includes Amendment 6 approved by CEN on 9 August 2019.

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European foreword

This document (EN 474-1:2006+A6:2019) 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of an identical text or by endorsement, at the latest by April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document includes Corrigendum 1 issued by CEN on 2014-03-05, Amendment 1, approved by CEN on 2009-01-04, Amendment 3, approved by CEN on 2013-01-06, Amendment 4, approved by CEN on 2013-08-10, Amendment 5, approved by CEN on 2017-10-01 and Amendment 6, approved by CEN on 2019-08-09.

This document supersedes [A6⟩ EN 474-1:2006+A5:2018 ⟨A6].

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A1⟩ ⟨A1] and [A3⟩ ⟨A3] and [A4⟩ ⟨A4] and [A5⟩ ⟨A5] and [A6⟩ ⟨A6].

The modifications of the related CEN Corrigendum have been implemented at the appropriate places in the text and are indicated by the tags [AC⟩ ⟨AC].

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.

[A1⟩ For relationship with EU Directive(s), see [A3⟩ informative Annex ZA ⟨A3], which is an integral part of this document. ⟨A1]

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 pipe-layers*

— *Part 10: Requirements for trenchers*

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— *Part 11: Requirements for earth and landfill compactors*

— *Part 12: Requirements for cable excavators*

For specific machines covered by other parts of the standard, this European Standard is intended for use in combination with relevant other parts of the series.

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

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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 [A3⟩ European Standard ⟨A3] specifies the general safety requirements for earth-moving machinery[1)] described in EN ISO 6165:2006, except rollers and horizontal directional drill.

NOTE 1 Rollers are covered by EN 500.

NOTE 2 Horizontal directional drills are covered by EN 791.

This [A3⟩ European Standard ⟨A3] also applies to derivative machinery (see 3.1.2) designed primarily for use with equipment to loosen, pick-up, move, transport, distribute and grade earth and rock.

This [A3⟩ European Standard ⟨A3] gives the common safety requirements for earth-moving machinery families and is intended to be used in conjunction with one of the EN 474 parts 2 to 12. These machine specific parts (EN 474-2 to -12) do not repeat the requirements from [A1⟩ EN 474-1:2006+A1:2009 ⟨A1], but add or replace the requirements for the family in question.

NOTE 3 The requirements specified in this part of the standard are common to two or more families of earth-moving machinery.

[A4⟩ This part gives specific requirements for demolition machinery. ⟨A4]

Specific requirements in EN 474 parts 2 to 12 take precedence over the respective requirements of [A1⟩ EN 474-1:2006+A1:2009 ⟨A1].

For multipurpose machinery the parts of the standard that cover the specific functions and applications have to be used e.g. a compact loader also used as a trencher shall use the relevant requirements of EN 474 parts 1, 3 and 10.

The standard also covers general requirements for attachments intended to be used with earth moving machine families covered in the scope.

[A1⟩ Except for part 12 this European Standard does not deal ⟨A1] with the electrical hazards related to the main circuits and drives of machinery when the principal source of energy is electrical.

[A1⟩ This European Standard does not deal with towing of trailers. ⟨A1]

This European Standard deals with all significant hazards, hazardous situations and events relevant to earth-moving machinery, when used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer (see Clause 4). This European Standard 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-moving machinery.

This European Standard is not applicable to earth moving machines, which are manufactured before the date of publication of this European Standard by CEN.

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1) For travelling on public roads the national traffic regulations apply until harmonised requirements are available. (A CEN-standard is under preparation.)

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