

Earth-moving machinery — Safety —

Part 8: Requirements for graders

The European Standard EN 474-8:1998 has the status of a
British Standard

ICS 53.100

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

BSI
Documents



Document Sharing Hub

National foreword

This British Standard is the English language version of EN 474-8:1998.

The UK participation in its preparation was entrusted by Technical Committee B/513, Construction equipment and plant, and site safety, to Subcommittee B/513/1, Earth-moving machinery (International), which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 9 and a back cover.

This British Standard, having been prepared under the direction of the Sector Board for Building and Civil Engineering, was published under the authority of the Standards Board and comes into effect on 15 September 1998

© BSI 1998

ISBN 0 580 29727 6

Amendments issued since publication

Amd. No.	Date	Text affected

ICS 53.100

Descriptors: Earth-moving equipment, graders, safety of machines, accident prevention, safety requirements, specifications, operating stations, human factors engineering, control devices, engine noise, sound power, hazards

English version

Earth-moving machinery — Safety — Part 8: Requirements for graders

Engins de terrassement — Sécurité —
Partie 8: Exigences applicables aux niveleuses

Erdbaumaschinen — Sicherheit —
Teil 8: Anforderungen für Grader

This European Standard was approved by CEN on 2 March 1998.

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.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

© 1998 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Foreword

This European Standard 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 September 1998, and conflicting national standards shall be withdrawn at the latest by September 1998.

This European Standard 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(s).

For the relationship with EU Directive(s), see informative annex ZA, which is an integral part of this standard.

Annex A is normative and contains a list of additional hazards and annex B is informative and contains illustrations.

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 rope excavators.*

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

Contents

	Page
Foreword	2
0 Introduction	3
1 Scope	3
2 Normative references	3
3 Definitions	4
3.1 Common definitions	4
3.2 Additional definitions	4
4 Safety requirements	4
4.1 Operator's station	4
4.2 Fenders	4
4.3 Operator seat vibrations	4
4.4 Operator's controls	4
4.5 Steering system	5
4.6 Visibility	5
4.7 Lighting, signalling and marking lights, and reflex-reflector devices	5
4.8 Tyres and rims	5
4.9 Airborne noise	5
4.10 Electro-magnetic compatibility	5
5 Warning signs and hazard pictorials	6
6 Instruction handbook	6
Annex A (normative) List of additional hazards — Graders	7
Annex B (informative) Illustrations	8
Annex ZA (informative) Relationship of this European Standard with EU Directives	9