



BSI Standards Publication

## **Aircraft ground support equipment - Specific requirements**

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Part 8: Maintenance or service stairs and platforms

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## National foreword

This British Standard is the UK implementation of EN 12312-8:2018. It supersedes BS EN 12312-8:2005+A1:2009, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ACE/57, Air cargo and ground support equipment.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Compliance with a British Standard cannot confer immunity from legal obligations.**

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## EUROPÄISCHE NORM

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English Version

## Aircraft ground support equipment - Specific requirements - Part 8: Maintenance or service stairs and platforms

Matériel au sol pour aéronefs - Exigences particulières  
- Partie 8: Escabeaux et plate-formes de maintenance  
ou de service

Luftfahrt-Bodengeräte - Besondere Anforderungen -  
Teil 8: Wartungs- oder Servicetreppen und -bühnen

This European Standard was approved by CEN on 23 April 2018.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (EN 12312-8:2018) has been prepared by Technical Committee CEN/TC 274 "Aircraft ground support equipment", 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 February 2019, and conflicting national standards shall be withdrawn at the latest by February 2019.

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 supersedes EN 12312-8:2005+A1:2009.

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 2006/42/EC on machinery.

For relationship with EU Directive 2006/42/EC on machinery, see informative Annex ZA, which is an integral part of this document.

EN 12312, *Aircraft ground support equipment — Specific requirements*, consists of the following parts:

- *Part 1: Passenger stairs;*
- *Part 2: Catering vehicles;*
- *Part 3: Conveyor belt vehicles;*
- *Part 4: Passenger boarding bridges;*
- *Part 5: Aircraft fuelling equipment;*
- *Part 6: Deicers and deicing equipment;*
- *Part 7: Aircraft movement equipment;*
- *Part 8: Maintenance or service stairs and platforms (the present document);*
- *Part 9: Container/Pallet loaders;*
- *Part 10: Container/Pallet transfer transporters;*
- *Part 11: Container/Pallet dollies and loose load trailers;*
- *Part 12: Potable water service equipment;*
- *Part 13: Lavatory service equipment;*
- *Part 14: Disabled/incapacitated passenger boarding vehicles;*
- *Part 15: Baggage and equipment tractors;*

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- *Part 16: Air start equipment;*
- *Part 17: Air conditioning equipment;*
- *Part 18: Oxygen or Nitrogen units;*
- *Part 19: Aircraft jacks, axle jacks and hydraulic tail stanchions;*
- *Part 20: Electrical ground power units.*

The main technical changes compared to EN 12312-8:2005+A1:2009 are the following:

- a) Amendment A1:2009 was incorporated;
- b) change of title to include “service stairs”;
- c) the Scope was updated and contains now a classification;
- d) Clause 2, *Normative references* was updated;
- e) the terms and definitions were updated, with 3.1 *maintenance stair* being deleted;
- f) *List of hazards* was moved to normative Annex A;
- g) Clause 5, *Safety requirements and/or measures* was completely revised;
- h) Clause 6, *Information for use* was updated;
- i) Clause 7, *Verification of requirements* was completely revised;
- j) Informative Annex A, *Examples of typical maintenance stairs and platforms*, was deleted and replaced by normative Annex A, *List of hazards*;
- k) Normative Annex B, *Additional stair on maintenance platform* was added;
- l) Informative Annex C, *Loading control* was added;
- m) Annex ZA referring to the Machinery Directive 98/37/EC was replaced by Annex ZA referring to the new Machinery Directive 2006/42/EC;
- n) the Bibliography was updated.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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## Introduction

This European Standard specifies health and safety requirements, as well as some functional and performance requirements for maintenance stairs and platforms including a built-in source of power (see Scope, Clause 1) intended for maintenance purposes on all aircraft types commonly in service in civil air transport.

The minimum essential criteria are considered to be of primary importance in providing safe, serviceable, economical and practical maintenance or service stairs and platforms. Deviations should occur only after careful consideration, extensive testing, risk assessment and thorough service evaluation have shown alternative methods or conditions to be satisfactory. Such deviations are outside the scope of this standard and a manufacturer should be able to demonstrate an equivalent level of protection.

This document is a type-C standard as stated in EN ISO 12100.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

- machine manufacturers (small, medium and large enterprises);
- health and safety bodies (regulators, accident prevention organizations, market surveillance etc.)

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

- machine users/employers (small, medium and large enterprises);
- machine users/employees (e.g. trade unions, organizations for people with special needs);
- service providers, e.g. for maintenance (small, medium and large enterprises);
- consumers (in case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate at the drafting process of this document.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document.

When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard. Deviations from requirements do not fall within the presumption of conformity given by the standard.

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## 1 Scope

### 1.1 General

This document specifies the technical requirements to minimize the hazards listed in Clause 4 which can arise during the commissioning, the operation and the maintenance of maintenance or service stairs and platforms when used as intended, including misuse reasonably foreseeable by the manufacturer, when carried out in accordance with the specifications given by the manufacturer or his authorized representative. It also takes into account some requirements recognized as essential by authorities, aircraft and ground support equipment (GSE) manufacturers as well as airlines and handling agencies.

These machines are designed to be used as aircraft ground support equipment with the intended use to serve aircraft in outdoor conditions on the apron. They can also be used indoors at hangars. The use of such equipment for operations not in conjunction with aircraft is not defined as intended use therein. Due to the good operational conditions on the apron, deviations from some clauses of EN 280 were deemed acceptable.

This European Standard applies to:

- a) self-propelled fixed or adjustable maintenance or service stairs and elevating platforms;
- b) towable maintenance or service stairs and platforms equipped with powered means, e.g. for height adjustment, stabilizers;

designed for aircraft maintenance or service purposes including access to the aircraft.

NOTE 1 Powered will be also understood as manual effort stored in springs or hydraulic accumulators, etc., the dangerous action of which can be produced or can continue after the manual effort has ceased or directly applied manual effort for lifting or lowering loads.

NOTE 2 Those clauses of this standard that can apply can also be used as a guideline for the design of towable maintenance or service stairs and platforms without powered means.

This European Standard does not apply to:

- c) maintenance docks either fixed to the ground or moveable only for docking procedure;
- d) ground support equipment specifically intended, built and equipped with a fluid system for aircraft de-icing and anti-icing (see EN 12312-6);

NOTE 3 This does not prevent aircraft de-icers meeting the requirements of EN 12312-6 from being used as a means of access for aircraft maintenance, e.g. windshield cleaning, etc.

- e) mobile elevating work platforms (MEWP) used at the airports for purposes other than aircraft maintenance, e.g. buildings and facilities (see EN 280).

No extra requirements on noise and vibration are provided other than those given in EN 1915-3 and EN 1915-4.

NOTE 4 EN 1915-3 and EN 1915-4 provide the general GSE vibration and noise requirements.

This European Standard does not deal with hazards in respect to a standard automotive chassis and from other vehicles on the apron.

This part of EN 12312 is not applicable to maintenance or service stairs and platforms which are manufactured before the date of publication of this standard by CEN.