

**Õhusõidukite maapealsed teenindusseadmed.
Erinõuded. Osa 8: Hooldustrepid ja platvormid
KONSOLIDEERITUD TEKST**

Aircraft ground support equipment - Specific requirements -
Part 8: Maintenance stairs and platforms CONSOLIDATED
TEXT

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12312-8:2005+A1:2009 sisaldab Euroopa standardi EN 12312-8:2005+A1:2009 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 30.06.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 29.04.2009.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12312-8:2005+A1:2009 consists of the English text of the European standard EN 12312-8:2005+A1:2009.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 30.06.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 29.04.2009.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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English Version

**Aircraft ground support equipment - Specific requirements - Part
8: Maintenance stairs and platforms**

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

Luftfahrt-Bodengeräte - Besondere Anforderungen - Teil 8:
Wartungstreppen und -bühnen

This European Standard was approved by CEN on 25 March 2005 and includes Amendment 1 approved by CEN on 1 March 2009.

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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 Management Centre has the same status as the official versions.



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Foreword

This document (EN 12312-8:2005+A1:2009) 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 by October 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

This document includes Amendment 1, approved by CEN on 2009-03-01.

This document supersedes EN 12312-8:2005.

The start and finish of text introduced or altered by amendment is indicated in the text by tags $\boxed{A_1}$ $\boxed{A_1}$.

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(s).

$\boxed{A_1}$ For relationship with EU Directives, see informative Annexes ZA and ZB, which are integral parts of this document. $\boxed{A_1}$

The Parts of EN 12312 — *Aircraft ground support equipment* — *Specific requirements* — are:

- 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/antiicing equipment
- Part 7: Aircraft movement equipment
- Part 8: Maintenance stairs and platforms
- 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 equipment
- Part 15: Baggage and equipment tractors
- Part 16: Air start equipment
- Part 17: Air conditioning equipment
- Part 18: Nitrogen or Oxygen units
- Part 19: Aircraft jacks, axle jacks and hydraulic tail stanchions
- Part 20: Ground power equipment

This European Standard includes a Bibliography.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, 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 United Kingdom.

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 Clause 1, Scope) 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 stairs and platforms. Deviations from the recommended criteria should occur only after careful consideration, extensive testing, risk assessment and thorough service evaluation have shown alternative methods or conditions to be satisfactory.

This European Standard is a Type C standard as stated in  EN ISO 12100 .

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

When provisions of this type C standard 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.

1 Scope

This European Standard specifies the technical requirements to minimise the hazards listed in Clause 4 which can arise during the commissioning, operation and maintenance of maintenance stairs and platforms when carried out in accordance with the specifications given by the manufacturer or his authorised representative. It also takes into account some performance requirements recognised as essential by authorities, aircraft and ground support equipment (GSE) manufacturers as well as airlines and maintenance and handling agencies.

This European Standard applies to:

- self-propelled maintenance stairs and platforms;
- towable maintenance stairs and platforms equipped with powered means, e.g. for height adjustment, stabilizers,

designed for aircraft maintenance purposes including access to the aircraft (Examples see Annex A).

NOTE 1 Powered should 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 European Standard that can apply may also be used as a guideline for the design of towable maintenance stairs and platforms without powered means.

This European Standard does not apply to:

- maintenance docks either fixed to the ground or moveable only for docking procedure.

This European Standard does not establish requirements for noise and vibration.

Noise and vibration are dealt with respectively in EN 1915-4 and EN 1915-3.

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 stairs and platforms which are manufactured before the date of publication of this standard by CEN.

Ⓐ This part of EN 12312 is intended to be used in conjunction with EN 1915-1, EN 1915-2, EN 1915-3 (for vehicles) and EN 1915-4. Ⓐ

2 Normative references

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

Ⓐ deleted text Ⓐ

EN 1050:1996, *Safety of machinery — Principles for risk assessment*

EN 1175-1, *Safety of industrial trucks — Electrical requirements — Part 1: General requirements for battery powered trucks*

EN 1386, *Aluminium and aluminium alloys — Tread plate — Specifications*

EN 1837, *Safety of machinery — Integral lighting of machines*

EN 1915-1:2001, *Aircraft ground support equipment — General requirements — Part 1: Basic safety requirements*

EN 1915-2, *Aircraft ground support equipment — General requirements — Part 2: Stability and strength requirements, calculations and test methods*

EN 1915-3, *Aircraft ground support equipment — General requirements — Part 3: Vibration measurement methods and reduction*

EN 1915-4, *Aircraft ground support equipment — General requirements — Part 4: Noise measurement methods and reduction*

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

EN ISO 12100-2:2003, *Safety of machinery — Basic concepts, general principles for design — Part 2: Technical principles (ISO 12100-2:2003)*

EN ISO 13850:2008, *Safety of machinery — Emergency stop — Principles for design (ISO 13850:2006)*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN ISO 12100:2003 and EN 1915-1:2001 and the following apply.

3.1

maintenance stair

stair designed for:

- entering and leaving the aircraft for maintenance purposes;
- reaching and/or access to elevated parts of the aircraft;
- carrying out maintenance work on aircraft

3.2

maintenance platform

elevating work platform designed for:

- reaching and/or access to elevated parts of the aircraft;
- carrying out maintenance work on aircraft

3.3

maintenance dock

installed assembly, either fixed to the ground or moveable only for the docking procedure, designed for:

- reaching elevated parts of the aircraft;
- carrying out maintenance work on defined aircraft types

3.4

stair flight

series of steps between ground level and platform or between two platforms

3.5

riser height (R)

distance between the surface of the tread of one step and the surface of a step above or below when measured perpendicularly between the tread surfaces