



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 1915-4:2005**

ICS 17.140.20  
49.100

**AIRCRAFT GROUND SUPPORT EQUIPMENT -  
GENERAL REQUIREMENTS - PART 4: NOISE  
MEASUREMENT METHODS AND REDUCTION**

National Standards  
Authority of Ireland  
Glasnevin, Dublin 9  
Ireland

Tel: +353 1 807 3800  
Fax: +353 1 807 3838  
<http://www.nsai.ie>

**Sales**  
<http://www.standards.ie>

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland  
and comes into effect on:  
February 11, 2005*

**NO COPYING WITHOUT NSAI  
PERMISSION EXCEPT AS  
PERMITTED BY COPYRIGHT  
LAW**

© NSAI 2005

**Price Code H**

Údarás um Chaighdeán Náisiúnta na hÉireann



EUROPEAN STANDARD

**EN 1915-4**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2004

---

ICS 17.140.20; 49.100

English version

## Aircraft ground support equipment - General requirements - Part 4: Noise measurement methods and reduction

Matériel au sol pour aéronefs - Exigences générales -  
Partie 4 : Bruit, réduction et méthodes de mesure

Luftfahrt-Bodengeräte - Allgemeine Anforderungen - Teil 4:  
Lärmessverfahren und -minderung

This European Standard was approved by CEN on 30 September 2004.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

# Contents

	<b>page</b>
<b>Foreword</b> .....	<b>3</b>
<b>Introduction</b> .....	<b>4</b>
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>5</b>
<b>4 Noise reduction</b> .....	<b>5</b>
<b>5 Test conditions</b> .....	<b>6</b>
<b>6 Emission sound pressure level — Operation during standstill test</b> .....	<b>8</b>
<b>7 Emission sound pressure level — Driving test</b> .....	<b>10</b>
<b>8 Sound power determination</b> .....	<b>12</b>
<b>9 Information to be reported</b> .....	<b>15</b>
<b>10 Declaration of noise emission</b> .....	<b>15</b>
<b>11 Verification</b> .....	<b>16</b>
<b>12 Instructions and technical documentation</b> .....	<b>16</b>
<b>Annex A (informative) Overview of typical requirements for measurement of sound pressure levels</b> .....	<b>17</b>
<b>Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC, amended by Directive 98/79/EC</b> .....	<b>18</b>
<b>Bibliography</b> .....	<b>19</b>

## Foreword

This document (EN 1915-4:2004) 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 May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

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).

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

EN 1915 "Aircraft ground support equipment — General requirements" consists of:

- Part 1: Basic safety requirements
- Part 2: Stability and strength requirements, calculations and test methods
- Part 3: Vibration measurement methods and reduction
- Part 4: Noise measurement methods and reduction

This is the first edition of this part of EN 1915.

A further European Standard (EN 12312) in several parts covering specific requirements for different aircraft ground support equipment is in preparation.

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

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## **EN 1915-4:2004 (E)**

### **Introduction**

The aim of this European Standard is to deal with noise as a hazard and to provide methods for the measurement and reduction of noise emission of GSE. A further aim of this European Standard is, despite the variety of GSE, to obtain representative and comparable information on the noise emissions of this category of equipment. It should be possible to determine and verify this information with justifiable effort.

General standards for the determination of the noise emissions at the operator's position and of the sound power levels of machines already exist. Because of specific applications these existing standards cannot be applied directly to GSE without supplement of specific machinery and operating conditions as given in this European Standard.

The idle condition is included for some machines because it is representative of those conditions in which the GSE has low noise emission as well as waiting between tasks.

This European Standard is a Type C standard as stated in EN 1070:1998.

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 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.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
  - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-