Irish Standard
I.S. EN 15892:2011

Railway applications - Noise Emission - Measurement of noise inside driver's cabs

I.S. EN 15892:2011

Incorporating amendments/corrigenda/National Annexes issued since publication:

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces:

This document is based on:
EN 15892:2011

Published:
17 February, 2011

This document was published
under the authority of the NSAI
and comes into effect on:
17 February, 2011

ICS number:
45.060.10
17.140.30

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I.S. EN 15892:2011

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 15892

February 2011

ICS 17.140.30; 45.060.10

English Version

Railway applications - Noise Emission - Measurement of noise inside driver's cabs

Applications ferroviaires - Emission de bruit - Mesurage du bruit dans la cabine de conduite

Bahnanwendungen - Geräuschemission - Geräuschmessung im Führerraum

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Ref. No. EN 15892:2011: E

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Foreword

This document (EN 15892:2011) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, 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of an identical text or by endorsement, at the latest by August 2011, and conflicting national standards shall be withdrawn at the latest by August 2011.

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

This document has been prepared under a mandate given to CEN/CENELEC/ETSI by the European Commission and the European Free Trade Association, and supports essential requirements of the Directive 2008/57/EC.

For relationship with EC Directive 2008/57/EC, see informative Annex ZA, which is an integral part of this document.

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, Croatia, 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 the United Kingdom.

1 Scope

This European Standard specifies a type test method to measure noise levels inside the driver's cabs of railway vehicles for assessing compliance with the relevant European legislation.

NOTE The relevant European legislation includes Directive 2003/10/EC of 6 February 2003 and the Commission Decisions of 23 December 2005 (Technical specification for interoperability relating to the subsystem 'rolling stock — noise' of the trans-European conventional rail system) and of 21 February 2008 (Technical specification for interoperability relating to the 'rolling stock' sub-system of the trans-European high-speed rail system).

This method is applicable to:

— the measurement of noise inside driver's cab resulting from the sounding of external warning horns when the vehicle is stationary;

— the measurement of noise inside the driver cab while the vehicle is running.

The method is not applicable to:

— complementary measurements that can be requested for acceptance tests, but which are not required by the TSIs referred to in this standard;

— the measurement of the noise from internal and external audible devices other than external warning horns;

— routine monitoring of the noise exposure of train crew.

The test procedures specified in this European Standard are of engineering grade (grade 2) with a precision of ± 2 dB, which is the preferred method for noise declaration purposes, as defined in EN ISO 12001.

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.

EN 15153-2, *Railway applications — External visible and audible warning devices for high speed trains — Part 2: Warning horns*

EN 60942:2003, *Electroacoustics — Sound calibrators (IEC 60942:2003)*

EN 61672-1:2003, *Electroacoustics — Sound level meters — Part 1: Specifications (IEC 61672-1:2002)*

EN 61672-2, *Electroacoustics — Sound level meters — Part 2: Pattern evaluation tests (IEC 61672-2:2003)*

EN ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2005)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.