



National Standards Authority of Ireland

IRISH STANDARD

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ICS 29.280

**RAILWAY APPLICATIONS -
ENVIRONMENTAL CONDITIONS FOR
EQUIPMENT
PART 2: FIXED ELECTRICAL
INSTALLATIONS**

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EUROPEAN STANDARD

EN 50125-2

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EUROPÄISCHE NORM

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English version

**Railway applications -
Environmental conditions for equipment
Part 2: Fixed electrical installations**

Applications ferroviaires -
Conditions d'environnement
pour le matériel
Partie 2: Installations électriques fixes

Bahnanwendungen -
Umweltbedingungen für Betriebsmittel
Teil 2: Ortsfeste elektrische Anlagen

This European Standard was approved by CENELEC on 2002-07-01. CENELEC 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 CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This European Standard was prepared by SC 9XC, Electric supply and earthing systems for public transport equipment and ancillary apparatus (fixed installations), of Technical Committee CENELEC TC 9X, Electrical and electronic applications for railways.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50125-2 on 2002-07-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2003-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-07-01

Annexes designated "informative" are given for information only.
In this standard, Annex A is informative.

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1 Scope

This European Standard takes into account environmental conditions within Europe.

This European Standard deals with the environmental influences on fixed electrical installations for traction power supply and equipment essential to operate a railway

- in open air;
- in covered areas;
- in tunnels;
- within enclosures placed in above areas.

Escalators, lifts, fire protection, lighting in tunnels and on platforms, ticket machines, ventilation systems and non-essential functions are not included.

Such influences include altitude, temperature and humidity, air movement, rain, snow, hail, ice, sand, solar radiation, lightning, pollution, vibration, shocks and EMC.

This standard does not specify the test requirements for equipment.

In case of environmental conditions not covered by the standard the data to be adopted for a specific project should be clearly stipulated when preparing a specification.

This standard is not intended to apply to cranes, installations in underground mines, suspended cable cars and funicular railways.

Nuclear radiation is excluded.

Signalling and telecommunications systems are not considered in this standard.

Fixed installed signalling and telecommunication equipment shall comply with EN 50125-3.

2 Normative references

This European Standard incorporates by dated or undated references, provisions from other publications. These normative references are cited at the appropriate place in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the last edition of the publication referred to applies (including amendments).

EN 50121-5	Railway applications – Electromagnetic compatibility Part 5: Emission and immunity of fixed power supply installations and apparatus
EN 50124-1	Railway applications - Insulation coordination Part 1: Basic requirements - Clearances and creepage distances for all electrical and electronic equipment
EN 50124-2	Railway applications - Insulation coordination Part 2: Overvoltages and related protection

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