



National Standards Authority of Ireland

IRISH STANDARD

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ICS 91.010.30

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STRUCTURAL BEARINGS - PART 1:

GENERAL DESIGN RULES

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English version

Structural bearings - Part 1: General design rules

Appareils d'appui structuraux - Partie 1: Indications
générales

Lager im Bauwesen - Teil 1: Allgemeine Regelungen

This European Standard was approved by CEN on 30 April 2000.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 167 "Structural bearings", the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by December 2000, and conflicting national standards shall be withdrawn at the latest by December 2000.

prEN 1337 „Structural bearings“ consists of the following 11 parts:

- Part 1 – General design rules
- Part 2 – Sliding elements
- Part 3 – Elastomeric bearings
- Part 4 – Roller bearings
- Part 5 – Pot bearings
- Part 6 – Rocker bearings
- Part 7 – Spherical and cylindrical PTFE bearings
- Part 8 – Guided bearings and restrained bearings
- Part 9 – Protection
- Part 10 – Inspection and maintenance
- Part 11 – Transport, storage and installation

This Part 1 „General design“ includes Annexes A, B and C (informative).

Further to CEN/TC 167's decision Part 1 and Part 2 form a package of standards and they come into force together, while the other parts come into force separately after the publication of Part 1 and Part 2.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard is applicable to structural bearings, whether used in bridges or in other structures.

This European Standard does not cover:

- a) bearings that transmit moments as a primary function;
- b) bearings that resist uplift;
- c) bearings for moving bridges;
- d) concrete hinges;
- e) seismic devices.

Although it is not intended to regulate temporary bearings this standard may be used as a guide in this case (temporary bearings are bearings used during construction or repair and maintenance of structures).

NOTE 1: Although the specifications given in this European Standard are necessary, they are not sufficient in themselves for the overall design of the structures and for the consideration of geotechnical aspects.

See prEN 1337-2 to prEN 1337-8 for information relating to bearings for which specifications are laid down for certain ranges of temperature only.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places 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 latest edition of the publication referred to applies.

prEN 1337-2	Structural bearings – Part 2: Sliding elements
prEN 1337-3	Structural bearings – Part 3: Elastomeric bearings
prEN 1337-4	Structural bearings – Part 4: Roller bearings
prEN 1337-5	Structural bearings – Part 5: Pot bearings
prEN 1337-6	Structural bearings – Part 6: Rocker bearings
prEN 1337-7	Structural bearings – Part 7: Spherical and cylindrical PTFE bearings
prEN 1337-8	Structural bearings – Part 8: Guided bearings and restrained bearings
EN 1337-9 : 1997	Structural bearings – Part 9: Protection
prEN 1337-10	Structural bearings – Part 10: Inspection and maintenance
EN 1337-11: 1997	Structural bearings – Part 11: Transport, storage and installation
ENV 1991-1 : 1994	Eurocode 1: Basis of design and actions on structures – Part 1: Basis of design
ENV 1992-2 : 1996	Eurocode 2: Design of concrete structures – Part 2: Concrete bridges
ENV 1993-2 : 1997	Eurocode 3: Design of steel structures – Part 2: Steel bridges
ENV 1994-2 : 1997	Eurocode 4: Design of composite steel and concrete structures – Part 2: Composite bridges

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