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STRUCTURAL BEARINGS - PART 8: GUIDE

BEARINGS AND RESTRAINT BEARINGS

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EUROPEAN STANDARD

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English Version

Structural bearings - Part 8: Guide Bearings and Restraint Bearings

Appareils d'appui structuraux - Partie 8 : Appareils d'appui guidés et appareils d'appui bloqués

Lager im Bauwesen - Teil 8: Führungslager und Festhaltekonstruktionen

This European Standard was approved by CEN on 23 August 2007.

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EN 1337-8:2007 (E)

Foreword

This document (EN 1337-8:2007) 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of an identical text or by endorsement, at the latest by April 2008, and conflicting national standards shall be withdrawn at the latest by July 2009.

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 by the European Commission and the European Free Trade Association, and supports essential requirements of EC Directive(s).

For relationship with EC Directive(s), see informative Annex ZA, which is an integral part of this document.

This document was prepared by Working Group 1 and Working Group 3 of CEN TC 167 "Structural Bearings".

This European Standard EN 1337 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 – Guide bearings and Restraint bearings
- Part 9 – Protection
- Part 10 – Inspection and maintenance
- Part 11 – Transport, storage and installation

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1 Scope

This Part of this European Standard deals with the requirements for the design and manufacture of Guide Bearings and Restraint Bearings.

Guide Bearings and Restraint Bearings are not intended to transmit vertical loads but they may be combined in one unit with bearings in accordance. EN 1337-1:2000, Table 1.

NOTE 1 Guide Bearings and Restraint Bearings are shown in EN 1337-1:2000, Table 1, No. 8.1 and 8.2. For combined bearings see EN 1337-1:2000, Table 1, bearing Nos. 1.2, 1.3, 1.6, 1.7, 1.8., 3.1, 4.1, 4.2, 4.3, 7.1, 7.3, and 7.4 with restraints and Nos. 1.5, 1.7, 2.2, 3.3, 3.4, 5.2, 6.2 and 7.3 with guides.

NOTE 2 Examples of combined bearings are given in Annex B.

The minimum operating temperature depends on the materials' properties used at the required temperature and the limitations given in the referenced parts of this European Standard.

NOTE 3 In certain circumstances the bearings described in this part of this European Standard may be required to operate in a plane inclined to the horizontal. In such circumstances the terms "vertical" and "horizontal" should be interpreted appropriately.

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 1337-1:2000, *Structural bearings – Part 1: General design rules*

EN 1337-2:2004, *Structural bearings – Part 2: Sliding elements*

EN 1337-5:2005, *Structural bearings – Part 5: Pot bearings*

EN 1337-9, *Structural bearings – Part 9: Protection*

EN 1990, *Eurocode – Basis of structural design*

EN 10025, *Hot rolled products of structural steels*

EN 10204, *Metallic products – Types of inspection documents*

EN 10083-3, *Steels for quenching and tempering - Part 3: Technical delivery conditions for alloy steels*

EN 10088-2, *Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes*

EN 10340, *Steel castings for structural uses*

prEN 1090-2, *Execution of steel structures and aluminium structures - Part 2: Technical requirements for the execution of steel structures*

ISO 898, *Mechanical properties of fasteners made of carbon steel and alloy steel (all parts)*

ISO 1083, *Spheroidal graphite cast irons — Classification*

ISO 3755, *Cast carbon steels for general engineering purposes*

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