

**Ehituses kasutatavad tugiosad. Osa 8:  
Piiratud liikumisega (ühesuunalise  
liikumisega) ja kinnised tugiosad**

Structural bearings - Part 8: Guide Bearings and  
Restraint Bearings

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1337-8:2007 sisaldab Euroopa standardi EN 1337-8:2007 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 22.11.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1337-8:2007 consists of the English text of the European standard EN 1337-8:2007.</p> <p>This document is endorsed on 22.11.2007 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> 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.</p>	<p><b>Scope:</b> 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.</p>
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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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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 CEN Management Centre has the same status as the official versions.

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## 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

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, 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 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*

### 3 Terms, Definitions, Symbols and Abbreviations

#### 3.1 Terms and definitions

For the purpose of this European Standard the following terms and definitions apply.

##### 3.1.1

###### **anchor plate**

optional plate that is positioned between the bearing plate and the main structure, normally permanently attached to the latter; provided to allow easy replacement of the bearing

##### 3.1.2

###### **bearing plate**

plate that is an integral part of the bearing and forms the main support to which restraints and guides are attached

##### 3.1.3

###### **packing plate**

optional plate placed between the bearing plate and the anchor plate for adjusting the overall height of the bearing

##### 3.1.4

###### **sliding element**

combination of appropriate materials with flat or curved surfaces in accordance with EN 1337-2

##### 3.1.5

###### **rotational element**

element that transmits the specified forces and permits rotations about at least one axis

##### 3.1.6

###### **guide bearing**

bearing that provides restraint in one horizontal direction only, accommodates rotations and does not transmit vertical loads (see EN 1337-1:2000, Table 1, No. 8.2).