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Machines et centrales pour la préparation du béton et du
mortier - Prescriptions de sécurité

Maschinen und Anlagen zur Bereitung von Beton und
Mörtel - Sicherheitsanforderungen

This European Standard was approved by CEN on 13 October 2007.

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Foreword

This document (EN 12151:2007) has been prepared by Technical Committee CEN/TC 151 “Construction equipment and building material machines — Safety”, 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of an identical text or by endorsement, at the latest by May 2008, and conflicting national standards shall be withdrawn at the latest by May 2008.

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 EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA and Annex ZB, which are 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, 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 United Kingdom.

Introduction

This document is a type C standard as stated in EN ISO 12100-1:2003.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

The road traffic law for each country remains unaffected by this standard.

1 Scope

1.1 This document applies for machinery and plants for the preparation of concrete and mortar as defined in 3.1.

This document specifies the requirements for the design of:

- a) batching and mixing installations for concrete and mortar;
- b) powered mixers for concrete and mortar, including for storage and handling;
- c) waste fresh concrete reprocessing plant.

It does not include requirements relevant to truck mixers.

The machinery may be static or it may be capable of being moved to an alternative position.

1.2 This document deals with all significant hazards, hazardous situations and events relevant to machinery and plant for the preparation of concrete and mortar, when they are used as intended and under the conditions foreseen by the manufacturer (see Clause 4). The exceptions are explosion hazards when using flammable or explosive materials that are significant but not dealt with. This document specifies the appropriate technical measures to eliminate or reduce risks arising from the significant hazards. Maintenance is dealt with but not noise during maintenance.

1.3 This document is not applicable to machinery and plants which are manufactured before the date of publication of this document by CEN.

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 294:1992, *Safety of machinery — Safety distances to prevent danger zones being reached by the upper limbs*

EN 349:1993, *Safety of machinery — Minimum gaps to avoid crushing of parts of the human body*

EN 360:2002, *Personal protective equipment against falls from a height — Retractable type fall arresters*

EN 361:2002, *Personal protective equipment against falls from a height — Full body harnesses*

EN 363:2002, *Personal protective equipment against falls from a height — Fall arrest systems*

EN 547-1:1996, *Safety of machinery — Human body measurements — Part 1: Principles for determining the dimensions required for openings for whole body access into machinery*

EN 547-2:1996, *Safety of machinery — Human body measurements — Part 2: Principles for determining the dimensions required for access openings*

EN 547-3:1996, *Safety of machinery — Human body measurements — Part 3: Anthropometric data*

EN 574:1996, *Safety of machinery — Two-hand control devices — Functional aspects — Principles for design*

EN 614-1:2006, *Safety of machinery — Ergonomic design principles — Part 1: Terminology and general principles*

EN 617:2001, *Continuous handling equipment and systems — Safety and EMC requirements for the equipment for the storage of bulk materials in silos, bunkers, bins and hoppers*

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