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Timber structures - Dowel-type fasteners - Requirements

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 14592:2008 sisaldab Euroopa standardi EN 14592:2008 ingliskeelset teksti.

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English Version

Timber structures - Dowel-type fasteners - Requirements

Structures en bois - Éléments de fixation - Exigences

Holzbauwerke - Stiftförmige Verbindungsmittel -
Anforderungen

This European Standard was approved by CEN on 9 August 2008.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 14592:2008) has been prepared by Technical Committee CEN/TC 124 "Timber structures", the secretariat of which is held by SFS.

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of an identical text or by endorsement, at the latest by April 2009, and conflicting national standards shall be withdrawn at the latest by July 2010.

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

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1 Scope

This European Standard specifies the requirements and test methods for materials, geometry, strength, stiffness and durability aspects (i.e. corrosion protection) of dowel-type fasteners for use in load bearing timber structures.

Only dowel-type fasteners manufactured from steel are covered by this European Standard. For the purpose of this standard, dowel-type fasteners for timber structures are taken to be nails, staples, screws, dowels, and bolts with nuts. Definitions of these items are given in Clause 3. This European Standard specifies also the evaluation of conformity procedures and includes requirements for marking of these products.

This European Standard does not cover resin coated dowel-type fasteners and fasteners treated with fire retardants to improve their fire performance. It also does not cover resin coated fasteners.

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 409, *Timber structures - Test methods - Determination of the yield moment of dowel type fasteners - Nails*
- EN 1382, *Timber structures - Test methods - Withdrawal capacity of timber fasteners*
- EN 1383:1999, *Timber structures - Test methods - Pull-through resistance of timber fasteners*
- EN 1995-1-1:2004, *Eurocode 5: Design of timber structures - Part 1-1: General - Common rules and rules for buildings*
- EN 10016 (all parts), *Non-alloy steel rod for drawing and/or cold rolling*
- EN 10025-2, *Hot rolled products of structural steels - Part 2: Technical delivery conditions for non-alloy structural steels*
- EN 10025-3, *Hot rolled products of structural steels - Part 3: Technical delivery conditions for normalized/normalized rolled weldable fine grain structural steels*
- EN 10083-1, *Steels for quenching and tempering - Part 1: General technical delivery conditions*
- EN 10083-2, *Steels for quenching and tempering - Part 2: Technical delivery conditions for non alloy steels*
- EN 10088-1, *Stainless steels - Part 1: List of stainless steels*
- EN 10088-2, *Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes*
- EN 10149-1, *Hot-rolled flat products made of high yield strength steels for cold forming - Part 1: General delivery conditions*
- EN 10218-1, *Steel wire and wire products - General - Part 1: Test methods*
- EN 10230-1, *Steel wire nails - Part 1: Loose nails for general applications*
- EN 10278, *Dimensions and tolerances of bright steel products*

EN 14358, *Timber structures - Calculation of characteristic 5-percentile values and acceptance criteria for a sample*

EN ISO 780, *Packaging - Pictorial marking for handling of goods (ISO 780:1997)*

EN ISO 1461, *Hot dip galvanised coatings on fabricated iron and steel articles - Specifications and test methods (ISO 1461:1999)*

EN ISO 4014, *Hexagon head bolts - Product grades A and B (ISO 4014:1999)*

EN ISO 4016, *Hexagon head bolts - Product grade C (ISO 4016:1999)*

EN ISO 4017, *Hexagon head screws - Product grades A and B (ISO 4017:1999)*

EN ISO 4018, *Hexagon head screws - Product grade C (ISO 4018:1999)*

EN ISO 4032, *Hexagon nuts, style 1 - Product grades A and B (ISO 4032:1999)*

EN ISO 4034, *Hexagon nuts - Product grade C (ISO 4034:1999)*

EN ISO 9001, *Quality management systems - Requirements (ISO 9001:2000)*

EN ISO 10666:1999, *Drilling screws with tapping screw thread - Mechanical and functional properties (ISO 10666:1999)*

ISO 286-2, *ISO system of limits and fits - Part 2: Tables of standard tolerance grades and limit deviation for holes and shafts*

ISO 2081, *Metallic coatings - Electroplated coatings of zinc on iron or steel*

3 Terms and definitions

For the purposes of this document, terms and definitions given in EN 1995-1-1:2004 and the following apply.

3.1

plain shank nail (smooth nail)

nail that has a constant cross-section along its entire length (e.g. round, square or grooved nails)

3.2

threaded nail

nail that has its shank profiled or deformed over a part of its length

3.3

staple crown width

distance between the outer edges of the staple legs

3.4

dowel

cylindrical metal fastener that does not contain an integral head

NOTE Dowels may be threaded and have nuts fitted at either end.

3.5

bolt

cylindrical metal fastener containing an integral head at one end and a threaded portion to receive a nut at the other end