

# SVENSK STANDARD

## SS-EN 15736:2009

Fastställt/Approved: 2009-08-31

Publicerad/Published: 2009-10-13

Utgåva/Edition: 1

Språk/Language: engelska/English

ICS: 91.080.20

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### **Träkonstruktioner – Provning – Spikplåtars utdragshållfasthet vid hantering av förtillverkade fackverk**

**Timber Structures – Test methods – Withdrawal capacity of punched metal plate fasteners in handling and erection of prefabricated trusses**



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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 15736**

August 2009

ICS 91.080.20

English Version

**Timber Structures - Test methods - Withdrawal capacity of  
punched metal plate fasteners in handling and erection of  
prefabricated trusses**

Structures en bois - Méthode d'essai - Résistance à  
l'arrachement des connecteurs à plaque métallique  
emboutie

Holzbauwerke - Prüfverfahren - Auszieh Widerstand von  
Nagelplatten unter Transport- und Montagezuständen in  
vorgefertigten Fachwerkträgern

This European Standard was approved by CEN on 17 July 2009.

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 CEN Management Centre or to any CEN member.

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## Foreword

This document (EN 15736:2009) 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of an identical text or by endorsement, at the latest by February 2010, and conflicting national standards shall be withdrawn at the latest by February 2010.

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.

For safe handling of trusses with punched metal plate fasteners accidental loads during the time between productions and erection should not cause damage that impairs the structural performance as outlined 9.2.1 (7)P of EN 1995-1-1:2004. This test method provides information about the sensitivity of the punched metal plate fasteners to resist these types of actions.

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 European Standard specifies a test method to determine the withdrawal behaviour of punched metal plate fasteners.

## 2 Normative references

The following referenced documents are essential to the use 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 1075:1999, *Timber Structures – Test methods – Joints made with punched metal plate fasteners*

EN 14250, *Timber Structures –Product requirements for prefabricated structural members assembled with punched metal plate fasteners*

EN 14545, *Timber Structures – Connectors requirements*

EN 26891, *Timber Structures – Joints with mechanical fasteners – General principles for the determination of strength and deformation characteristics (ISO 6891:1983)*

EN 28970, *Timber Structures – Testing of joints with mechanical fasteners – Requirements for wood density (ISO 8970:1989)*

ISO 3130, *Wood – Determination of moisture content for physical and mechanical tests*

ISO 3131, *Wood – Determination of density for physical and mechanical tests*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### Depth

refers to the depth of the test piece and testing in bending. As the tests are conducted in flat wise bending this will relate to the thickness of the timber and therefore to the smallest cross-sectional dimension

### 3.2

#### Width

refers to the width of the test piece as tested; the largest cross-sectional dimension

## 4 Symbols

$h$  depth;

$b$  width;

$w_m$  centre span displacement in the bending test, in millimetre;

$w_v$  relative displacement in the shear test, in millimetre.