

SVENSK STANDARD

SS-EN 595

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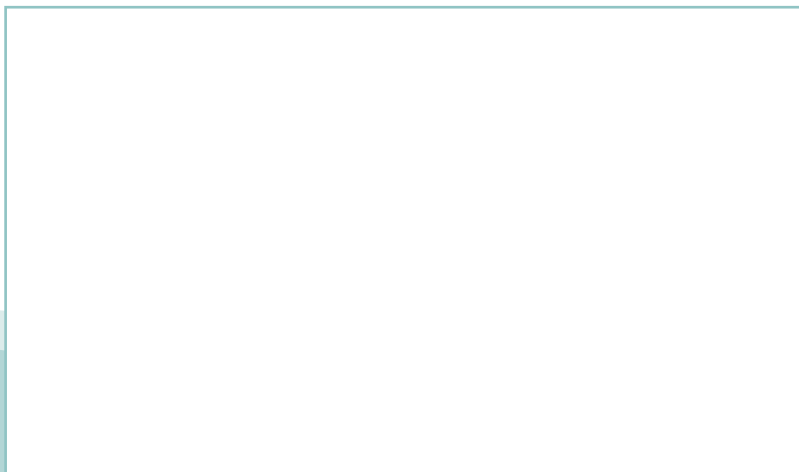
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Träkonstruktioner – Takstolar – Provning av hållfasthet och styvhet

Timber structures – Test methods – Test of trusses for the determination of strength and deformation behavior



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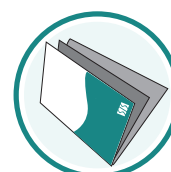
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The European Standard EN 595:1995 has the status of a Swedish Standard. This document contains the official English version of EN 595:1995.

**Denna standard var tidigare Ikraftsättning/
This standard was previous an endorsement:**

Ikraftsättningen angav felaktigt hänvisning till SS-EN 596.
The endorsement was not correct refered to SS-EN 596.

Detta dokument innehåller nu den kompletta standarden SS-EN 595.
This document now contains the complete standard SS-EN 595.

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EUROPEAN STANDARD

EN 595

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 1995

ICS 91.040.00

Descriptors: timber construction, mechanical tests, stiffness tests, determination, mechanical strength

English version

**Timber structures - Test methods - Test of trusses
for the determination of strength and deformation
behaviour**

Structures en bois - Méthodes d'essai - Essais
des fermes pour la détermination de la
résistance et de la rigidité

Holzbawerke - Prüfverfahren - Prüfung von
Fachwerkträgern zur Bestimmung der
Tragfähigkeit und des Verformungsverhaltens

This European Standard was approved by CEN on 1994-12-05. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 124 "Timber structures" of which the secretariat is held by DS.

NOTE: It is considered desirable to maintain the same clause numbers consistently throughout this series of standards. Consequently some clauses are void in this edition of this standard, but it is envisaged that future editions may need to include text in these clauses.

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 September 1995, and conflicting national standards shall be withdrawn at the latest by September 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This standard specifies the test procedures for determining the strength and deformation behaviour of trusses.

NOTE: The test methods are based on EN 380.

2 Normative references

None.

3 Definitions

None.

4 Symbols

F applied load, in newtons;

F_{\max} maximum applied load, in newtons;

G characteristic permanent load composed of G_1 and G_2 , in newtons;

G_1 self weight of truss, in newtons;

- G_2 applied permanent load, in newtons;
 Q characteristic value of variable load, in newtons;
 T loading time, in seconds;
 T_r recovery time, in seconds.

5 Requirements

None.

6 Test methods

6.1 Principle

The purpose of the test methods is to measure the deformation behaviour and strength of trusses subjected to the type of loading which may be expected in service. Uniformly distributed test loads may be simulated by applying point loads.

6.2 Apparatus

6.2.1 General. The apparatus used for the test shall simulate the assumed or actual service conditions of the truss in respect of the truss span, the size, position and rigidity of the truss bearing and the lateral stability of the truss.

6.2.2 Lateral restraint. Lateral restraint shall not affect the vertical stiffness of the truss.

6.2.3 Load and deformation measurement. The apparatus shall be capable of continuously applying and recording the loads F with an accuracy of $\pm 3\%$ of the load applied, or, for loads of less than $0,1 F_{\max}$ with an accuracy of $\pm 0,3\% F_{\max}$.

The deformations shall be measured

- to the nearest 0,1 mm in the deformation test, and
- to the nearest 1 mm in the strength test.

Deformations shall be measured at all points considered important to the serviceability requirements of the truss.