

SVENSK STANDARD

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Temporära konstruktioner – Väderskydd – Krav och utförande

Temporary works equipment – Encapsulation constructions – Performance requirements and general design

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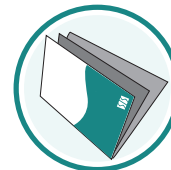
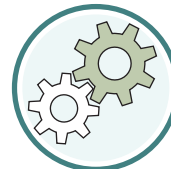
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EUROPEAN STANDARD

EN 16508

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2015

ICS 91.120.01; 91.200

English Version

**Temporary works equipment - Encapsulation
constructions - Performance requirements and general
design**

Équipements temporaires de chantiers - Systèmes de
protection d'ouvrage - Exigences de performance et
conception générale

Temporäre Konstruktionen für Bauwerke -
Einhausungskonstruktionen - Leistungsanforderungen,
Entwurf, Konstruktion und Bemessung

This European Standard was approved by CEN on 26 September 2015.

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-CENELEC Management Centre or to any CEN member.

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-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 16508:2015) has been prepared by Technical Committee CEN/TC 53 “Temporary works equipment”, 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 June 2016, and conflicting national standards shall be withdrawn at the latest by June 2016.

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.

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Introduction

The purpose of a temporary roof and encapsulation construction according to this standard is to protect the area inside from climatic influences and dust. It is also used to protect the public from effects from inside.

This European Standard includes rules for structural design, which are of particular relevance to encapsulations.

Individual countries may have national laws or regulations which are not in line with this European standard. Information on that can be found in the attached A-deviations.

1 Scope

This European Standard specifies performance requirements and design methods for temporary roofs and encapsulations.

It is possible to form the constructions in several ways:

- temporary roof which is supported by an existing permanent construction (Figure 1);
- temporary roof which is supported by a scaffold (Figure 2 and 3);
- temporary roof which is supported by another temporary construction (e.g. steel frame);
- temporary wall which is supported by a separate construction (Figure 4);
- encapsulation which is a complete temporary construction including roof, walls and corresponding temporary supports (Figure 5).

This European Standard sets out general requirements. These are substantially independent of the materials of which the construction is made. This standard is intended to be used as the basis for enquiry and design.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1990 (all parts), *Eurocode: Basis of structural design*

EN 1991 (all parts), *Eurocode 1: Actions on structures*

EN 1993 (all parts), *Eurocode 3: Design of steel structures*

EN 1995 (all parts), *Eurocode 5: Design of timber structures*

EN 1999 (all parts), *Eurocode 9: Design of aluminium structures*

EN 12811-1:2003, *Temporary works equipment — Part 1: Scaffolds — Performance requirements and general design*

EN 12811-2, *Temporary works equipment — Part 2: Information on materials*

EN 12812:2008, *Falsework — Performance requirements and general design*

3 Terms and definitions

For the purposes of this document the terms of EN 12811-1 and EN 12812 and the following apply.

3.1

temporary roof

construction intended to cover work activities

3.2 temporary encapsulation

construction intended to encapsulate work activity areas, consisting of a combination of following elements: roof, walls and supports

Note 1 to entry: For different types, see Figures 1 to 5.

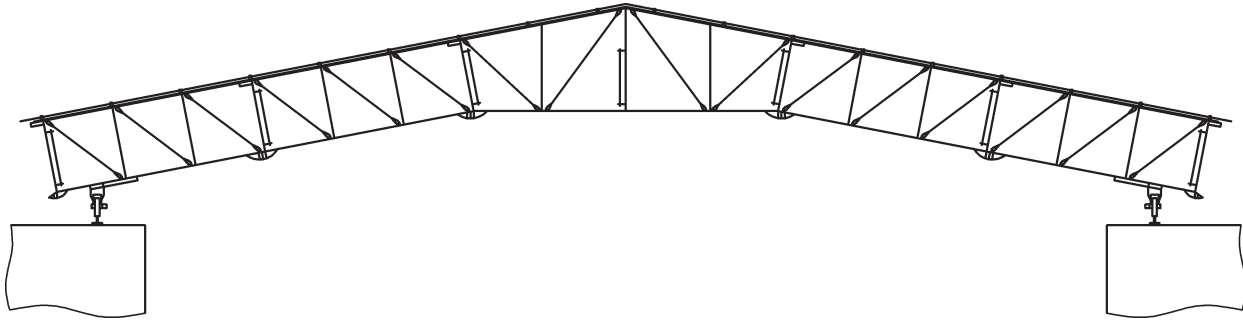


Figure 1 — Example of a temporary roof which is supported by an existing permanent construction

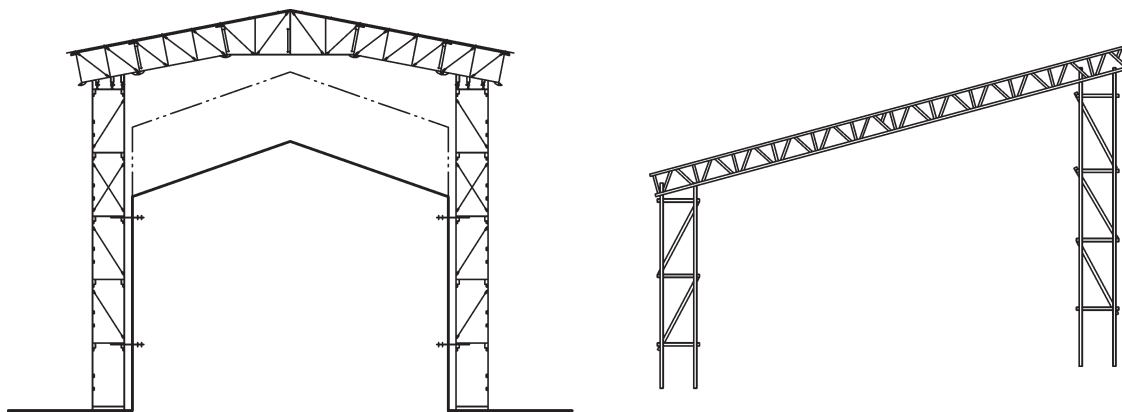


Figure 2 — Examples of temporary roofs supported by scaffolding elements

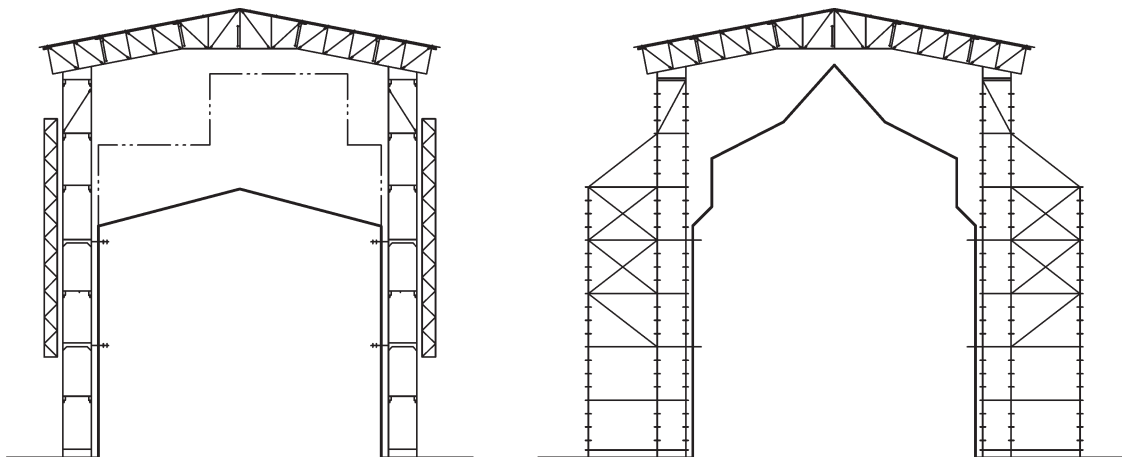
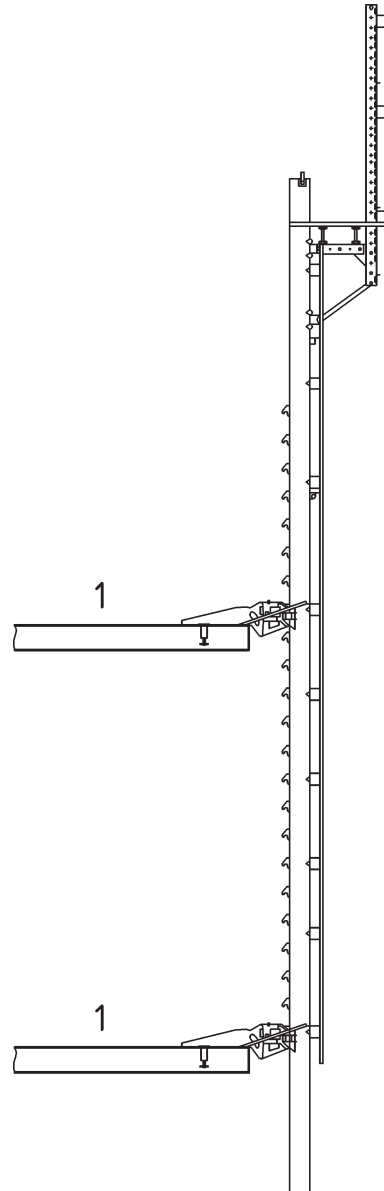


Figure 3 — Examples of temporary roofs supported by working scaffold



Key

1 existing support

Figure 4 — Example of a temporary wall supported by a separate construction