

BS EN 16508:2015



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

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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

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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of an identical text or by endorsement, at the latest by June 2016, and conflicting national standards shall be withdrawn at the latest by June 2016.

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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.

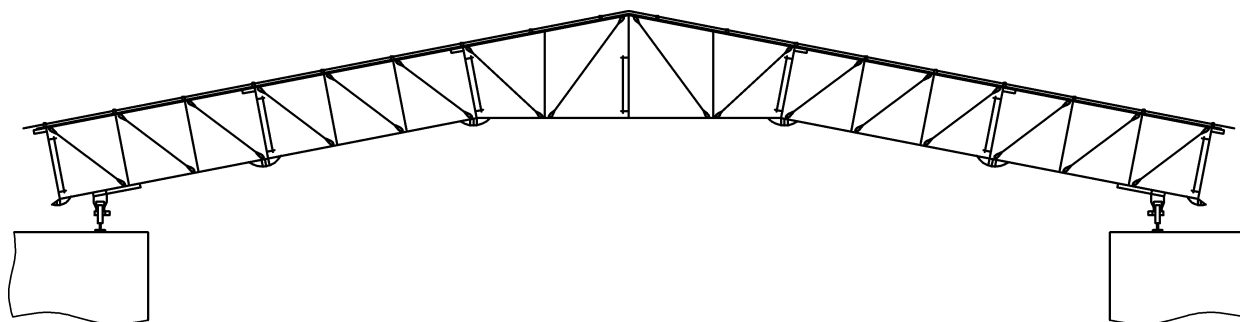


Figure 1 — Example of a temporary roof which is supported by an existing permanent construction

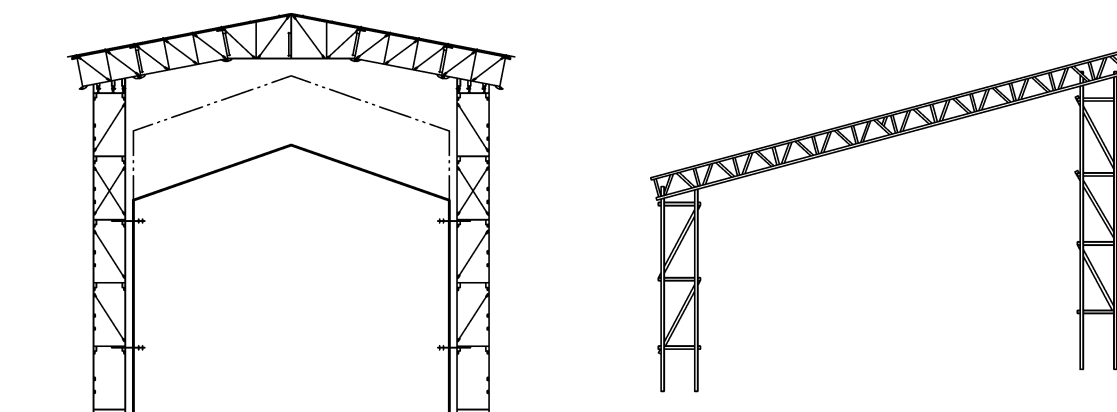


Figure 2 — Examples of temporary roofs supported by scaffolding elements

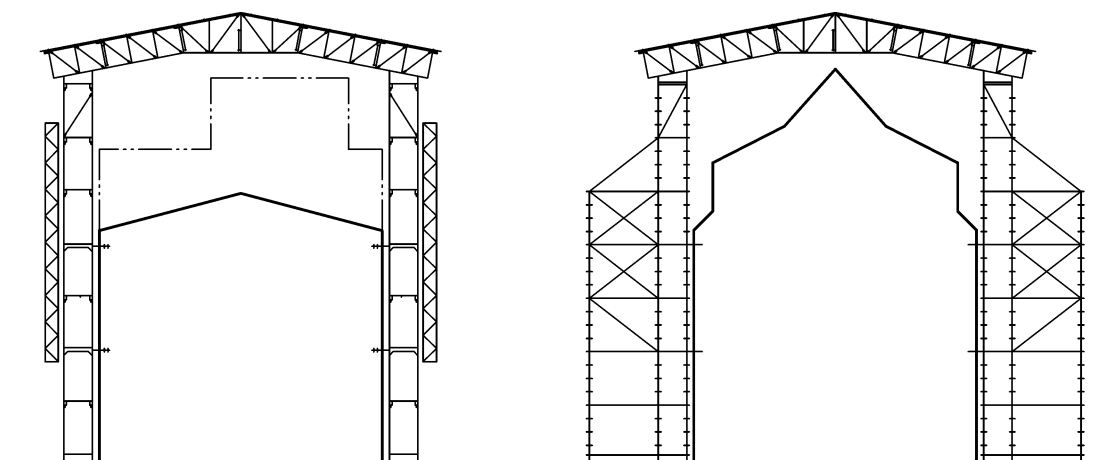


Figure 3 — Examples of temporary roofs supported by working scaffold