

Facade scaffolds made of prefabricated components - Part 1: Products specifications

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12810-1:2004 sisaldab rahvusvahelise standardi ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 27.04.2004 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12810-1:2004 consists of the English text of the international standard .</p> <p>This document is endorsed on 27.04.2004 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This European Standard specifies the performance requirements and the general requirements of structural design and assessment for prefabricated faēade scaffold systems. The faēade scaffolds are intended for use while connected to the faēade with ties. Scaffold systems are classified by six criteria, see Table 1</p>	<p>Scope: This European Standard specifies the performance requirements and the general requirements of structural design and assessment for prefabricated faēade scaffold systems. The faēade scaffolds are intended for use while connected to the faēade with ties. Scaffold systems are classified by six criteria, see Table 1</p>
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Võtmesõnad:

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English version

Facade scaffolds made of prefabricated components - Part 1: Products specifications

Echafaudages de façade à composants préfabriqués -
Partie 1: Spécifications des produits

Fassadengerüste aus vorgefertigten Bauteilen - Teil 1:
Produktfestlegungen

This European Standard was approved by CEN on 4 September 2003.

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 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 Management Centre has the same status as the official versions.

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



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Foreword

This document (EN 12810-1:2003) 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 2004**, and conflicting national standards shall be withdrawn at the latest by **June 2004**.

This document also contains an informative annex ZB.

This European Standard supersedes the European Harmonisation document HD 1000:1988 "Service and working scaffolds made of prefabricated elements; Materials, dimensions, design loads and safety requirements".

This European Standard is one of a series of standards as listed below.

EN 12810-1, *Façade scaffolds made of prefabricated components — Part 1: Product specifications.*

EN 12810-2, *Façade scaffolds made of prefabricated components — Part 2: Particular methods of structural design.*

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

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

EN 12811-3, *Temporary works equipment — Part 3: Load Testing.*

Annexes A, B and C are informative.

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

Introduction

Based on the requirements specified, a manufacturer proposes a façade scaffold system and puts it forward for assessment and certification of conformity with the requirements of this European Standard. The structural design and assessment is carried out using the standard set of system configurations chosen by the manufacturer, taking account of the requirements of this standard.

Many of the detailed requirements are given in EN 12811-1, prEN 12811-2 and EN 12811-3 with which this European Standard should be read, EN 12810-2 gives requirements for particular methods of structural design. A façade scaffold system, which has been successfully assessed will also satisfy the corresponding requirements of EN 12811-1, prEN 12811-2 and EN 12811-3. It may be used without any further calculation within the scope of the standard set of system configurations. If the performance requirements are more onerous, or if the application is outside the standard set of system configurations, then further calculations may be needed in order to show that sufficient resistance and stiffness is provided.

It is anticipated that some systems will be able to conform to the requirements of several classes.

This conversion of HD 1000 into a European Standard is intended to create a common technical base for design. This standard has a narrower scope than HD 1000 because much has been transferred to EN 12811-1, prEN 12811-2 and EN 12811-3.

1 Scope

This European Standard specifies the performance requirements and the general requirements for structural design and assessment for prefabricated façade scaffold systems. The façade scaffolds are intended for use while connected to the façade with ties. Scaffold systems are classified by six criteria, see Table 1.

It is limited to façade scaffold systems that have standards made of steel or aluminium alloy and have other elements made of these materials or timber based materials.

It defines a standard set of system configurations under which the structural design is carried out. Other configurations may be possible with some systems, but they are outside the scope.

This standard should be read in conjunction with EN 12811-1, prEN 12811-2, EN 12811-3 and EN 12810-2 which specify certain of the requirements.

This standard does not specify requirements for protection fans. It does not give information about erection, use, dismantling or maintenance.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 39, *Loose steel tubes for tube and coupler scaffolds - Technical delivery conditions.*

EN 74, *Couplers, loose spigots and base-plates for use in working scaffolds and falsework made of steel tubes - Requirements and test procedures.*

EN 755-8, *Aluminium and aluminium alloys — Extruded rod/bar, tube and profiles — Part 8: Porthole tubes, tolerances on dimensions and form.*

EN 10204, *Metallic products — Types of inspection documents.*

EN 10219-2, *Cold formed welded structural hollow sections of non-alloy and fine grain steels — Part 2: Tolerances, dimensions and sectional properties.*

EN 12810-2:2003, *Façade scaffolds made of prefabricated elements — Part 2: Particular methods of structural design.*

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

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

EN 12811-3:2002, *Temporary works equipment — Part 3: Load Testing.*

ENV 1999-2:1998, Eurocode 9: *Design of aluminium structures — Part 2: Structures susceptible to fatigue.*