

DIN EN 12810-2



ICS 91.220

This standard, together with
DIN EN 12810-1, March 2004
edition, supersedes DIN 4420-4,
December 1988 edition.

Façade scaffolds made of prefabricated components

Part 2: Particular methods of structural design

English version of DIN EN 12810-2

Fassadengerüste aus vorgefertigten Bauteilen – Teil 2: Besondere Bemessungsverfahren und Nachweise

European Standard EN 12810-2 : 2003 has the status of a DIN Standard.

A comma is used as the decimal marker.

National foreword

This standard has been prepared by CEN/TC 53 'Temporary works equipment' (Secretariat: Germany). The responsible German body involved in its preparation was the *Normenausschuss Bauwesen* (Building and Civil Engineering Standards Committee), Technical Committee 11.05.00 *Arbeits- und Schutzgerüste*.

Amendments

DIN 4420-4, December 1988 edition, has been superseded by the specifications of EN 12810-2.

Previous edition

DIN 4420-4: 1988-12.

Document comprises 23 pages.

English version

Façade scaffolds made of prefabricated components

Part 2: Particular methods of structural design

Echafaudages de façade à composants préfabriqués – Partie 2:
Méthodes de conception et d'évaluation particulières

Fassadengerüste aus vorgefertigten Bauteilen – Teil 2: Besondere Bemessungsverfahren und Nachweise

This European Standard was approved by CEN on 2003-09-04.

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.

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 Management Centre has the same status as the official versions.

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

CEN

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

Management Centre: rue de Stassart 36, B-1050 Brussels

Contents

	Page
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Structural design	4
4.1 General	4
4.2 Models for structural analysis	6
4.3 Tests on configurations and connection devices	10
4.3.1 Tests for stiffness and resistance	10
4.3.2 Vibration test	10
4.4 Tests on a representative section of a system configuration	11
4.4.1 General	11
4.4.2 Type 1 test for verification of significant load displacement behaviour	11
4.4.3 Type 2 test for the verification of the elastic buckling load factor α_{cr}	13
4.4.3.1 Test assembly	13
4.4.3.2 Test procedure	13
4.4.3.3 Validation of α_{cr}	14
Annex A (normative) Typical tests for connection devices and configurations	14
Annex B (normative) Drop tests for platforms and their supports	20
Annex C (normative) Repeated loading tests for welded aluminium treads	22
Bibliography	22