

DIN EN 1365-1



ICS 13.220.50; 91.060.10

Supersedes
DIN EN 1365-1:2012-12

**Fire resistance tests for loadbearing elements –
Part 1: Walls;
English version EN 1365-1:2012 + AC:2013,
English translation of DIN EN 1365-1:2013-08**

Feuerwiderstandsprüfungen für tragende Bauteile –
Teil 1: Wände;

Englische Fassung EN 1365-1:2012 + AC:2013,
Englische Übersetzung von DIN EN 1365-1:2013-08

Essais de résistance au feu des éléments porteurs –
Partie 1: Murs;

Version anglaise EN 1365-1:2012 + AC:2013,
Traduction anglaise de DIN EN 1365-1:2013-08

Document comprises 26 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.



A comma is used as the decimal marker.

National foreword

This document (EN 1365-1:2012+AC:2013) has been prepared by Technical Committee CEN/TC 127 “Fire safety in buildings” (Secretariat: BSI, United Kingdom).

The responsible German body involved in its preparation was the *Normenausschuss Bauwesen* (Building and Civil Engineering Standards Committee), Working Committee NA 005-52-02 AA *Brandverhalten von Baustoffen und Bauteilen — Bauteile*.

Amendments

This standard differs from DIN EN 1365-1:1999-10 as follows:

- a) mechanical loading of the test specimen has been introduced;
- b) the standard has been brought in line with the modifications in EN 1363-1;
- c) the standard has been editorially revised.

This standard differs from DIN EN 1365-1:2012-12 as follows:

- a) Amendment EN 1365-1:2012/AC:2013 has been incorporated;
- b) the reference to EN 1363-1 is now undated.

The start and finish of text introduced or altered by amendment is indicated in the text by tags  .

Previous editions

DIN 4102-1: 1934-08, 1940-11, 1977-09

DIN 4102-3: 1934-08, 1940-11

DIN 4102-2: 1934-08, 1940-11, 1965x-09, 1970-02, 1977-09

DIN EN 1365-1: 1999-10, 2012-12

English Version

Fire resistance tests for loadbearing elements – Part 1: Walls

Essais de résistance au feu des éléments porteurs –
Partie 1: Murs

Feuerwiderstandsprüfungen für tragende Bauteile –
Teil 1: Wände

EN 1365-1:2012 was approved by CEN on 2012-07-13 and Corrigendum AC:2013 on 2013-04-24.

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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword to EN 1365-1:2012 + AC:2013	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Test equipment	6
4.1 General.....	6
4.2 Test frame.....	6
4.3 Loading equipment.....	6
5 Test conditions	6
5.1 Furnace atmosphere	6
5.2 Loading and restraint	6
6 Test specimen	6
6.1 Size.....	6
6.2 Number	7
6.3 Design	7
6.4 Construction.....	7
6.5 Verification	7
7 Installation of test specimen	7
7.1 General.....	7
7.2 Supporting construction	7
7.3 Loading and restraint of the test specimen	8
8 Conditioning.....	8
9 Application of instrumentation.....	8
9.1 Thermocouples	8
9.1.1 Furnace thermocouples (plate thermometers).....	8
9.1.2 Unexposed face thermocouples	8
9.2 Pressure.....	9
9.3 Deflection.....	9
9.3.1 Vertical	9
9.3.2 Horizontal	9
9.4 Radiation.....	9
9.5 Impact	9
10 Test procedure	10
10.1 Application of load.....	10
10.2 Fire test	10
11 Performance criteria.....	10
11.1 General.....	10
11.2 Loadbearing capacity.....	10
12 Test report	10
13 Field of direct application of test results	10
Bibliography.....	24