

DIN EN 845-2**DIN**

ICS 91.080.30

Supersedes
DIN EN 845-2:2013-08
See start of application**Specification for ancillary components for masonry -
Part 2: Lintels;
English version EN 845-2:2013+A1:2016,
English translation of DIN EN 845-2:2016-12**

Festlegungen für Ergänzungsbauten für Mauerwerk –
Teil 2: Stürze;

Englische Fassung EN 845-2:2013+A1:2016,
Englische Übersetzung von DIN EN 845-2:2016-12

Spécifications pour composants accessoires de maçonnerie –
Partie 2: Linteaux;
Version anglaise EN 845-2:2013+A1:2016,
Traduction anglaise de DIN EN 845-2:2016-12

Document comprises 45 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.

Start of application

The start of application of this standard is 2016-12-01.

It should be noted that, in Germany, CE conformity marking of construction products will be permitted once this standard has been listed in the Official Journal of the European Union and/or the *Bundesanzeiger* (German Federal Gazette) and from the date given therein.

For further information, users of this standard should refer to the websites of the European Commission or of the relevant building authority.

The standard which this document replaces, DIN EN 845-2:2013-08, may be used in parallel with this standard during a specified transition period where such has been laid down in the Official Journal of the European Union and/or the *Bundesanzeiger* (German Federal Gazette).

National foreword

This document (EN 845-2:2013+A1:2016) has been prepared by Technical Committee CEN/TC 125 "Masonry" (Secretariat: BSI, United Kingdom).

The responsible German body involved in its preparation was *DIN-Normenausschuss Bauwesen* (DIN Standards Committee Building and Civil Engineering), Working Committee NA 005-06-01 AA *Mauerwerksbau*.

Amendments

This standard differs from DIN EN 845-2:2013-08 as follows:

- a) Clause 8 has been completely revised;
- b) Annex ZA has been completely revised.

Previous editions

DIN EN 845-2: 2003-08, 2013-08

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 845-2:2013+A1

July 2016

ICS 91.080.30

Supersedes EN 845-2:2013

English Version

Specification for ancillary components for masonry -
Part 2: Lintels

Spécifications pour composants accessoires de
maçonnerie - Partie 2: Linteaux

Festlegungen für Ergänzungsbauteile für Mauerwerk -
Teil 2: Stürze

This European Standard was approved by CEN on 21 March 2013 and includes Amendment 1 approved by CEN on 9 April 2016.

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, Former Yugoslav Republic of Macedonia, 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

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

Contents

	Page
European foreword.....	4
1 Scope.....	5
2 Normative references.....	5
3 Terms, definitions and symbols.....	6
3.1 Terms and definitions	6
3.2 Symbols.....	8
4 Materials.....	11
4.1 Steel lintels	11
4.2 Concrete lintels	11
4.3 Masonry lintels.....	12
4.4 Combined and composite lintels	13
5 Requirements	13
5.1 General.....	13
5.2 Dimensions, mass and limit deviations.....	13
5.2.1 Dimensions.....	13
5.2.2 Mass per unit area.....	14
5.2.3 Built-in length.....	14
5.2.4 Deviation from declared values	14
5.3 Mechanical performance and information to obtain the mechanical performance.....	14
5.3.1 Single lintels, combined lintels and composite lintels.....	14
5.3.2 Prefabricated part of composite lintels	15
5.4 Durability	16
5.4.1 General.....	16
5.4.2 Steel lintels	16
5.4.3 Concrete lintels and masonry lintels	16
5.5 Water penetration and installation.....	16
5.6 Thermal properties	16
5.7 Freeze/thaw resistance	17
5.7.1 General.....	17
5.7.2 Steel lintels	17
5.7.3 Concrete lintels	17
5.7.4 Masonry lintels.....	17
5.8 Resistance to fire	17
5.9 Water absorption	17
5.9.1 General.....	17
5.9.2 Steel lintels	17
5.9.3 Other lintels.....	18
5.10 Water vapour permeability.....	18
5.11 Dangerous substances.....	18
6 Description and designation	18
7 Marking.....	21

8	Assessment and verification of constancy of performance - AVCP	22
8.1	General.....	22
8.2	Type testing.....	22
8.2.1	General.....	22
8.2.2	Test samples, testing and compliance criteria	23
8.2.3	Test reports	23
8.2.4	Shared other party results	23
8.3	Factory production control (FPC)	24
8.3.1	General.....	24
8.3.2	Requirements	25
8.3.3	Product specific requirements	28
8.3.4	Procedure for modifications	28
	Annex A (informative) Method for assessment of loads on lintels.....	29
	Annex B (informative) Recommendations for installation of lintels	30
B.1	Bearings.....	30
B.2	Installation	30
B.3	Composite lintels.....	30
	Annex C (normative) Corrosion protection systems	31
C.1	Steel lintels	31
C.2	Concrete and masonry lintels (except those manufactured using autoclaved aerated concrete)	33
C.3	Lintels manufactured using autoclaved aerated concrete	34
	Annex D (informative) Guidance on FPC frequencies	35
[A]	Annex ZA [A] (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation.....	37
Z.A.1	Scope and relevant characteristics.....	37
Z.A.2	System of Assessment and Verification of Constancy of Performance (AVCP).....	40
Z.A.3	Assignment of AVCP tasks	40
	Bibliography	42