DIN EN 845-2:2016-12 (E)

Specification for ancillary components for masonry - Part 2: Lintels (includes Amendment A1:2016)

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**
〚A1〉 Annex ZA 〈A1〛 (informative) **Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation** **37**
ZA.1 Scope and relevant characteristics **37**
ZA.2 System of Assessment and Verification of Constancy of Performance (AVCP) **40**
ZA.3 Assignment of AVCP tasks **40**
Bibliography **42**