



NSAI
Standards

Irish Standard
I.S. EN 845-1:2013

Specification for ancillary components for masonry - Part 1: Wall ties, tension straps, hangers and brackets

I.S. EN 845-1:2013

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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<i>This document is based on:</i>	<i>Published:</i>
EN 845-1:2013	20 June, 2014
EN 845-1:2003+A1:2008	20 February, 2008

This document was published under the authority of the NSAI and comes into effect on:
20 June, 2014

ICS number:

91.080.30

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National Foreword

This Irish Standard is the national version of European Standard EN 845-1 *Specification for ancillary components for masonry – Part 1: Wall ties, tension straps, hangers and brackets*. The national annex that accompanied this document has been withdrawn. Guidance on the use of this standard has been incorporated into Annex D of S.R. 325:2013+A1:2014 *Recommendations for the design of masonry structures in Ireland to Eurocode 6*.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with an Irish Standard does not of itself confer immunity from legal obligations.

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English Version

Specification for ancillary components for masonry - Part 1: Wall ties, tension straps, hangers and brackets

Spécification pour composants accessoires de maçonnerie
- Partie 1 : Attaches, brides de fixation, étriers de support et
consoles

Festlegungen für Ergänzungsbauteile für Mauerwerk - Teil
1: Maueranker, Zugbänder, Auflager und Konsolen

This European Standard was approved by CEN on 21 March 2013.

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.



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Contents

Page

Foreword.....	4
1 Scope.....	5
2 Normative references	5
3 Terms, definitions and symbols	7
3.1 Terms and definitions.....	7
3.2 Symbols	10
4 Materials.....	23
4.1 General.....	23
4.2 Fixings and materials not supplied by the manufacturer	23
5 Requirements	24
5.1 General.....	24
5.2 Dimensions and limit deviations	24
5.2.1 Method of measurement and accuracy	24
5.2.2 Length, applicable cavity width, embedment and fixings (number, size and location)	24
5.2.3 Thickness or diameter	25
5.2.4 Other information.....	25
5.3 Mechanical strength	25
5.3.1 Wall ties and associated fixings.....	25
5.3.2 Joist hangers.....	28
5.3.3 Brackets	28
5.3.4 Tension straps.....	29
5.4 Resistance to water crossing a cavity	30
5.5 Safety during installation	30
5.6 Durability.....	30
5.7 Dangerous substances.....	30
6 Description and designation.....	31
7 Marking	33
8 Evaluation of conformity	33
8.1 General.....	33
8.2 Initial type tests	33
8.3 Factory production control	34
8.3.1 General.....	34
8.3.2 Testing and measuring equipment	35
8.3.3 Production equipment.....	35
8.3.4 Raw materials	35
8.3.5 Production process	35
8.3.6 Finished product testing	35
8.3.7 Statistical techniques	35
8.3.8 Marking and stock control of products	35
8.3.9 Traceability	35
8.3.10 Nonconforming products.....	36
8.4 Sampling for initial type testing and independent testing of consignments.....	36
Annex A (normative) Materials and protective coatings	37
Annex B (informative) Guidance on FPC frequencies	42
Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Directive	44
ZA.1 Scope and relevant characteristics.....	44

ZA.2	Procedure(s) for the attestation of conformity of products	51
ZA.3	CE marking and labelling	53
Bibliography	57

Foreword

This document (EN 845-1:2013) has been prepared by Technical Committee CEN/TC 125 "Masonry", the secretariat of which is held by BSI.

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 December 2013, and conflicting national standards shall be withdrawn at the latest by December 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 845-1:2003+A1:2008.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This part has been modified to take into account comments made in the five-year review on the 2003 version. A change has been made in the permission to use historic test data when arriving at declared values; a limited permission is also given for the use of calculation methods in certain cases. In view of their widespread use, austenitic ferritic stainless steels have been added to the materials that may be used.

EN 845, *Specification for ancillary components for masonry*, consists of the following parts:

- *Part 1: Wall ties, tension straps, hangers and brackets*
- *Part 2: Lintels*
- *Part 3: Bed joint reinforcement of steel meshwork*

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: 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 the United Kingdom.

1 Scope

This European Standard specifies requirements for wall ties, tension straps, hangers and brackets for interconnecting masonry and for connecting masonry to other parts of works and buildings including walls, floors, beams, and columns. Where anchors or fasteners are supplied or specified as part of an ancillary component, the requirements including performance requirements apply to the complete product.

This European Standard is not applicable to:

- a) anchors and fasteners other than as part of an ancillary component;
- b) shelf angles;
- c) wall starter plates for tying into existing walls;
- d) products formed from materials other than:
 - 1) austenitic stainless steel (molybdenum chrome nickel alloys or chrome nickel alloys);
 - 2) austenitic ferritic stainless steel;
 - 3) ferritic stainless steel;
 - 4) copper;
 - 5) phosphor bronze;
 - 6) aluminium bronze;
 - 7) zinc-coated-steel with or without organic coating;
 - 8) polypropylene;
 - 9) polyamide (for expansion plugs only).

NOTE The resistance to fire performance of the products included herein cannot be assessed separately from the masonry element of which they are part and is therefore not covered under the scope of this part of this European Standard.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 771 (all parts), *Specification for masonry units*

EN 846-2, *Methods of test for ancillary components for masonry — Part 2: Determination of bond strength of prefabricated bed joint reinforcement in mortar joints*

EN 846-3, *Methods of test for ancillary components for masonry — Part 3: Determination of shear load capacity of welds in prefabricated bed joint reinforcement*

EN 846-4, *Methods of test for ancillary components for masonry — Part 4: Determination of load capacity and load-deflection characteristics of straps*

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