SLOVENSKI STANDARD
kSIST FprEN 845-3:2012

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Specifikacija za dodatne komponente zidovja - 3. del: Jeklene mreže za armiranje naležnih reg

Specification for ancillary components for masonry - Part 3: Bed joint reinforcement of steel meshwork

Festlegungen für Ergänzungsbauteile für Mauerwerk - Teil 3: Lagerfugenbewehrung aus Stahl

Spécifications pour composants accessoires de maçonnerie - Partie 3 : Treillis d'armature en acier pour joints horizontaux

Ta slovenski standard je istoveten z: **FprEN 845-3**

ICS:

91.060.10	Stene. Predelne stene. Fasade	Walls. Partitions. Facades
91.080.30	Zidane konstrukcije	Masonry

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EUROPEAN STANDARD

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FINAL DRAFT
FprEN 845-3

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English Version

Specification for ancillary components for masonry - Part 3: Bed joint reinforcement of steel meshwork

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This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 125.

If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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Foreword

This document (FprEN 845-3:2012) has been prepared by Technical Committee CEN/TC 125 “Masonry”, the secretariat of which is held by BSI.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 845-3:2003+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 the comments made in the five-year review on the 2003 version. In view of their widespread use, austenitic stainless steel has 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*.

1 Scope

This European Standard specifies the requirements for masonry bed joint reinforcement for structural use (see 5.2.1) and for non-structural use (see 5.2.2).

Where products are intended for use in cavity wall construction, this European Standard covers only the performance of the meshwork as reinforcement in bed joints and not its performance as wall ties across the cavity.

This European Standard is not applicable to:

a) products in the form of individual bars or rods;

b) products formed from materials other than specified grades of austenitic stainless steel, austenitic ferritic stainless steel, zinc pre-coated steel sheet or zinc coated steel wire with or without organic coating.

NOTE Annex ZA refers only to welded wire meshwork intended for structural use referred to in 5.2.1 as there are no known regulated requirements for products of this family for non structural use.

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 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 10020, *Definitions and classification of grades of steel*

EN 10088 (all parts), *Stainless steels*

EN 10143, *Continuously hot-dip coated steel sheet and strip — Tolerances on dimensions and shape*

EN 10244 (all parts), *Steel wire and wire products — Non-ferrous metallic coatings on steel wire*

EN 10245-1, *Steel wire and wire products — Organic coatings on steel wire — Part 1: General rules*

EN 10245-2, *Steel wire and wire products — Organic coatings on steel wire — Part 2: PVC finished wire*

EN 10245-3, *Steel wire and wire products — Organic coatings on steel wire — Part 3: PE coated wire*

EN 10346, *Continuously hot-dip coated steel flat products — Technical delivery conditions*

EN ISO 15630 (all parts), *Steel for the reinforcement and prestressing of concrete — Test methods*

3 Terms, definitions and symbols

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1
bed joint
mortar layer between the bed faces of masonry units

3.1.2
bed joint reinforcement
steel reinforcement that is prefabricated for building into a bed joint

3.1.3
bond strength
tensile load that can be resisted by a specified length of reinforcement in a masonry bed joint

3.1.4
characteristic yield strength
value of the yield strength above which 95 % of all the individual test results occur

3.1.5
cross-wires
wires which connect longitudinal wires

3.1.6
declared value
value for a product property, determined in accordance with this standard, that a manufacturer is confident of achieving bearing in mind the variability of the manufacturing process

3.1.7
element
complete length of bed joint reinforcement either in straight cut lengths or in a roll

3.1.8
anchorage length
minimum embedment of a length of bed joint reinforcement in mortar in order to achieve the full effectiveness of the reinforcement

3.1.9
longitudinal wire
wire placed parallel to the length of the masonry

3.1.10
meshwork
network created with welded or woven wires or as a result of expanding a strip with a series of parallel slits

3.1.11
profile height
maximum overall height (distance between the upper and lower surfaces at right angles to the length and width of the joint) of the embedded portion of the bed joint reinforcement

3.1.12
shear load capacity
mean value for sample of product specimens of the failure loads at the junction between two wires loaded in the direction of the longitudinal axis in the plane of the bed joint reinforcement