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Metal beads and feature profiles for use with gypsum plasterboards - Definitions, requirements and test methods

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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Podľa zákona č. 264/1999 Z. z. o technických požiadavkách na výrobky a o posudzovaní zhody a o zmene a doplnení niektorých zákonov v znení neskorších predpisov sa slovenská technická norma a časti slovenskej technickej normy môžu rozmnôžovať alebo rozširovať len so súhlasom slovenského národného normalizačného orgánu.

EUROPEAN STANDARD
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English Version

**Metal beads and feature profiles for use with gypsum
plasterboards - Definitions, requirements and test
methods**

Cornières et profilés métalliques pour plaques de
plâtre - Définitions, exigences et méthodes d'essai

Hilfs- und Zusatzprofile aus Metall zur Verwendung
mit Gipsplatten - Begriffe, Anforderungen und
Prüfverfahren

This European Standard was approved by CEN on 29 July 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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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	Page
Contents	
European foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms, definitions, symbols and abbreviations	6
3.1 Terms and definitions	6
3.2 Symbols and abbreviations	7
4 Requirements	7
4.1 Reaction to fire	7
4.2 Flexural strength (expressed as bending behaviour)	8
4.3 Release of dangerous substances	8
4.4 Additional technical requirements	8
4.5 Protective coating	8
4.6 Functional requirements	9
4.7 Dimensions and tolerances	9
5 Test methods	12
5.1 Sampling	12
5.2 Dimensional measurements	12
5.3 Profile dimensions	15
5.4 Wing width	15
5.5 Determination of expansion and movement	15
5.6 Determination of breaking strength of paper tape	16
5.7 Determination of bending behaviour	16
6 Assessment and verification of constancy of performance — AVCP	17
6.1 General	17
6.2 Type testing	17
6.3 Factory production control (FPC)	18
7 Designation	19
8 Marking, labelling and packaging	20
Annex A (informative) Sampling procedure for testing	21
A.1 General	21
A.2 Sampling procedure	21
Annex ZA (informative) Relationship of this European Standard with Regulation (EU) No.305/2011	23
ZA.1 Scope and relevant characteristics	23
ZA.2 System of Assessment and Verification of Constancy of Performance (AVCP)	23
ZA.3 Assignment of AVCP tasks	23
Bibliography	26

European foreword

This document (EN 14353:2017) has been prepared by Technical Committee CEN/TC 241 "Gypsum and gypsum based products", the secretariat of which is held by AFNOR.

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 January 2018, and conflicting national standards shall be withdrawn at the latest by April 2019.

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

This document supersedes EN 14353:2007+A1:2010.

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 Regulation (EU) No. 305/2011.

For relationship with Regulation (EU) No. 305/2011, see informative Annex ZA, which is an integral part of this document.

The main technical changes that have been made in this new edition of EN 14353 are the following:

- a) Normative references have been updated;
- b) Annex ZA and Clause 6 have been revised to be in line with the Construction Products Regulation (CPR);
- c) document has been editorially revised.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

Metal beads and feature profiles are produced in wide variety of sizes and shapes. They are cold formed from mild steel sheets with various protective coatings or extruded or cold formed from aluminium. Some of the beads are faced with paper tape to enable them to be jointed. The materials, design and mechanical properties make them particularly suitable to provide improved physical properties and/or enhanced decorative solutions to gypsum board assemblies.

Metal beads and feature profiles may be fixed by various methods to the gypsum board and may be featured self-finished, featured with decoration or concealed by finishing with jointing compounds to receive decoration.

1 Scope

This European Standard specifies the characteristics and performance of metal beads, metal beads combined with paper tape and metal feature profiles designed for use in systems made with gypsum plasterboards according to EN 520, gypsum boards with fibrous reinforcement according to EN 15283-1 and EN 15283-2 and products from secondary processing according to EN 14190, gypsum board thermal/acoustic insulation composite panels according to EN 13950 and prefabricated gypsum board panels with a cellular paperboard core according to EN 13915, intended to be used in building construction works. Metal beads and feature profiles, depending upon their material and type, can be featured without decoration, decorated or finished with jointing compounds to receive decoration.

It covers the following performance characteristics: reaction to fire and flexural strength (bending behaviour) to be measured according to the corresponding European test methods.

It provides the assessment and verification of constancy of performance of the products

This European Standard covers also additional technical characteristics that are of importance for the use and acceptance of the product by the construction industry and the reference tests for these characteristics.

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 485-2:2016, *Aluminium and aluminium alloys — Sheet, strip and plate — Part 2: Mechanical properties*

EN 485-4:1993, *Aluminium and aluminium alloys — Sheet, strip and plate — Part 4: Tolerances on shape and dimensions for cold-rolled products*

EN 520:2004+A1:2009, *Gypsum plasterboards — Definitions, requirements and test methods*

EN 10131:2006, *Cold rolled uncoated and zinc or zinc-nickel electrolytically coated low carbon and high yield strength steel flat products for cold forming — Tolerances on dimensions and shape*

EN 10139:2016, *Cold rolled uncoated low carbon steel narrow strip for cold forming — Technical delivery conditions*

EN 10140:2006, *Cold rolled narrow steel strip — Tolerances on dimensions and shape*

EN 10143:2006, *Continuously hot-dip coated steel sheet and strip — Tolerances on dimensions and shape*

EN 10152:2017, *Electrolytically zinc coated cold rolled steel flat products for cold forming — Technical delivery conditions*

EN 10346:2015, *Continuously hot-dip coated steel flat products for cold forming — Technical delivery conditions*

EN 13501-1:2007+A1:2009, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

EN 13963:2014, *Jointing materials for gypsum boards — Definitions, requirements and test methods*

EN 15283-1:2008+A1:2009, *Gypsum boards with fibrous reinforcement — Definitions, requirements and test methods — Part 1: Gypsum boards with mat reinforcement*

EN 15283-2:2008+A1:2009, *Gypsum boards with fibrous reinforcement — Definitions, requirements and test methods — Part 2: Gypsum fibre boards*

EN ISO 1924-2:2008, *Paper and board — Determination of tensile properties — Part 2: Constant rate of elongation method (20 mm/min) (ISO 1924-2:2008)*

EN ISO 9227:2017, *Corrosion tests in artificial atmospheres — Salt spray tests (ISO 9227:2017)*

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