Irish Standard
I.S. EN 45556:2019

General method for assessing the proportion of reused components in energy-related products

I.S. EN 45556:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

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This document is based on:	*Published:*
EN 45556:2019	2019-06-07

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2019-06-25	NOTE: If blank see CEN/CENELEC cover page

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National Foreword

I.S. EN 45556:2019 is the adopted Irish version of the European Document EN 45556:2019, General method for assessing the proportion of reused components in energy-related products

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 45556

June 2019

ICS 13.030.50; 29.020; 31.020

English Version

General method for assessing the proportion of reused components in energy-related products

Méthode générale d'évaluation de la proportion de composants réutilisés dans les produits liés à l'énergie

Allgemeines Verfahren zur Bewertung des Anteils an wiederverwendeten Komponenten in energieverbrauchsrelevanten Produkten

This European Standard was approved by CENELEC on 15 April 2019. CEN and CENELEC 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 and CENELEC 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 and CENELEC 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 Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Ref. No. EN 45556:2019 E

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European foreword

This document (EN 45556:2019) has been prepared by CEN/CLC/JTC 10 “Energy-related products - Material Efficiency Aspects for Ecodesign”.

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2020-04-15
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2022-04-15

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

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

The dual logo CEN-CENELEC standardization deliverables, in the numerical range of 45550 – 45559, have been developed under standardization request M/543 of the European Commission and are intended to potentially apply to any product within the scope of the energy-related products (ErP) Directive (2009/125/EC).

Topics covered in the above standardization request are linked to the following material efficiency aspects:

a) Extending product lifetime.

b) Ability to reuse components or recycle materials from products at end-of-life.

c) Use of reused components and/or recycled materials in products.

These standards are general in nature and describe or define fundamental principles, concepts, terminology or technical characteristics. They can be cited together with other product-specific or product-group standards, e.g. developed by product technical committees.

This document is intended to be used by product technical committees when producing product-specific or product-group standards.

Introduction

This document provides general methods for assessing the proportion of reused components in an energy-related product. Four calculation methods based on mass of re-used components and the number of reused components are presented. Other methods may exist and be more suitable for certain products or product-groups. While writing product standards on assessing the proportion of reused components product technical committees should apply the most suitable methods for their product-group.

1 Scope

This document deals with the assessment of the proportion of reused components in energy-related products on a generic level, which can be applied at any point in the life of the product.

This document is intended to be used by product technical committees when producing product, or product-group, standards.

This document can be applied where no product-specific standard exists.

Aspects like performance, validation, verification and suitability of reused components are not in the scope of this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 45559:2019, *Methods for providing information relating to material efficiency aspects of energy-related products*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply. ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

NOTE See CLC/TR 45550:−[1] for additional definitions related to Material Efficiency.

3.1
component
hardware constituent of a product that cannot be taken apart without destruction or impairment of its intended use

Note 1 to entry: A component which is used again with or without alteration is considered a reused component

[SOURCE: IEC 62542 definition 3.3, modified “electronic” removed, “device” replaced by “hardware constituent of a product”, Example removed, and Note 1 to entry replaced by “A component which is used again with or without alteration is considered a reused component”]

4 Assessment method for the proportion of reused components in an energy-related product

4.1 General considerations

As there are no methods available for directly measuring the proportion of reused components in a product it can be only determined indirectly. Therefore, the verification is by means of documented evidence from the manufacturer, supplier and/or authorized distributor. Aspects of traceability, including identification of the reused component or groups of reused components, shall be included in the documentation.

There is no obligation to collect information for all components, but only components verified as used can be accounted for as reused components.

[1] Under preparation. Stage at the time of publication: CLC/prTR 45550:2018