

# **Krav til indsamling, logistik og behandling i forbindelse med WEEE – Del 1: Generelle krav til behandling**

Collection, logistics & Treatment requirements  
for WEEE – Part 1: General treatment requirements

A large, thin, black curved line that starts at the bottom left, rises to a peak in the middle, and then descends towards the bottom right, spanning across the lower half of the page.

**DANSK STANDARD**  
Danish Standards

Kollegievej 6  
DK-2920 Charlottenlund  
Tel: +45 39 96 61 01  
Fax: +45 39 96 61 02  
dansk.standard@ds.dk  
www.ds.dk

# DS/EN 50625-1

København

DS projekt: M279588

ICS: 13.030.99; 29.100.01; 31.220.01

**Første del af denne publikations betegnelse er:**

**DS/EN, hvilket betyder, at det er en europæisk standard, der har status som dansk standard.**

**Denne publikations overensstemmelse er:**

**IDT med: EN 50625-1:2014.**

**DS-publikationen er på engelsk.**

---

## DS-publikationstyper

Dansk Standard udgiver forskellige publikationstyper.

Typen på denne publikation fremgår af forsiden.

Der kan være tale om:

### **Dansk standard**

- standard, der er udarbejdet på nationalt niveau, eller som er baseret på et andet lands nationale standard, eller
- standard, der er udarbejdet på internationalt og/eller europæisk niveau, og som har fået status som dansk standard

### **DS-information**

- publikation, der er udarbejdet på nationalt niveau, og som ikke har opnået status som standard, eller
- publikation, der er udarbejdet på internationalt og/eller europæisk niveau, og som ikke har fået status som standard, fx en teknisk rapport, eller
- europæisk præstandard

### **DS-håndbog**

- samling af standarder, eventuelt suppleret med informativt materiale

### **DS-hæfte**

- publikation med informativt materiale

Til disse publikationstyper kan endvidere udgives

- tillæg og rettelsesblade

## DS-publikationsform

Publikationstyperne udgives i forskellig form som henholdsvis

- fuldtekstpublikation (publikationen er trykt i sin helhed)
- godkendelsesblad (publikationen leveres i kopi med et trykt DS-omslag)
- elektronisk (publikationen leveres på et elektronisk medie)

## DS-betegnelse

Alle DS-publikationers betegnelse begynder med DS efterfulgt af et eller flere præfikser og et nr., fx **DS 383**, **DS/EN 5414** osv. Hvis der efter nr. er angivet et **A** eller **Cor**, betyder det, enten at det er et **tillæg** eller et **rettelsesblad** til hovedstandard, eller at det er indført i hovedstandard.

DS-betegnelse angives på forsiden.

## Overensstemmelse med anden publikation:

Overensstemmelse kan enten være IDT, EQV, NEQ eller MOD

- **IDT:** Når publikationen er identisk med en given publikation.
- **EQV:** Når publikationen teknisk er i overensstemmelse med en given publikation, men præsentationen er ændret.
- **NEQ:** Når publikationen teknisk eller præsentationsmæssigt ikke er i overensstemmelse med en given standard, men udarbejdet på baggrund af denne.
- **MOD:** Når publikationen er modificeret i forhold til en given publikation.

**Collection, logistics & Treatment requirements for WEEE -  
Part 1: General treatment requirements**

Exigences de collecte, logistique et  
traitement pour les déchets d'équipements  
électriques et électroniques (DEEE) -  
Partie 1: Exigences générales du  
traitement

Sammlung, Logistik und Behandlung von  
Elektro- und Elektronik-Altgeräten  
(WEEE) -  
Teil 1: Allgemeine Anforderungen an die  
Behandlung

This European Standard was approved by CENELEC on 2014-01-27. 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 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 CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## Contents

Table of contents.....	1
Foreword.....	- 4 -
Introduction.....	- 5 -
1 Scope.....	- 6 -
2 Normative references.....	- 6 -
3 Terms & definitions.....	- 6 -
3.2 backlight.....	- 6 -
3.3 batch.....	- 7 -
3.4 batch process.....	- 7 -
3.5 category.....	- 7 -
3.7 CRT (Cathode Ray Tube).....	- 7 -
3.8 CRT equipment.....	- 7 -
3.9 collection.....	- 7 -
3.10 collection facility.....	- 7 -
3.11 de-pollution.....	- 7 -
3.12 disposal.....	- 7 -
3.13 end-of-waste.....	- 8 -
3.14 energy recovery.....	- 8 -
3.15 flat panel.....	- 8 -
3.16 flat panel display.....	- 8 -
3.17 flat panel display equipment.....	- 8 -
3.18 fraction.....	- 8 -
3.19 hazardous waste.....	- 8 -
3.20 lamp (electric).....	- 8 -
3.21 lamp, gas discharge.....	- 8 -
3.22 logistics facility.....	- 9 -
3.23 material recovery.....	- 9 -
3.24 national competent authority.....	- 9 -
3.25 operator.....	- 9 -
3.26 photovoltaic panel (PV panel).....	- 9 -
3.27 preparing for re-use.....	- 9 -
3.28 recovery.....	- 9 -
3.29 recycling.....	- 9 -
3.30 removal.....	- 9 -
3.31 re-use.....	- 10 -
3.32 storage.....	- 10 -
3.33 temperature exchange equipment.....	- 10 -
3.34 treatment.....	- 10 -
3.35 treatment facility.....	- 10 -
3.36 treatment operator.....	- 10 -
3.37 volatile fluorocarbon (VFC).....	- 10 -
3.38 volatile hydrocarbon (VHC).....	- 10 -
3.39 waste.....	- 11 -
3.40 WEEE (Waste Electrical and Electronic Equipment).....	- 11 -
4 Administrative and organisational requirements.....	- 11 -
4.1 Management principles.....	- 11 -
4.2 Technical and infrastructural pre-conditions.....	- 11 -
4.3 Training.....	- 12 -
4.4 Monitoring.....	- 12 -
4.5 Shipments.....	- 13 -
5 Technical requirements.....	- 13 -
5.1 General.....	- 13 -
5.2 Receiving of WEEE at treatment facility.....	- 14 -

5.3	Handling of WEEE.....	- 14 -
5.4	Storage of WEEE prior to treatment.....	- 14 -
5.5	De-pollution.....	- 15 -
5.6	De-pollution monitoring.....	- 15 -
5.7	Treatment of non de-polluted WEEE and fractions.....	- 16 -
5.8	Storage of fractions.....	- 16 -
5.9	Recycling and recovery targets.....	- 16 -
5.10	Recovery and disposal of fractions.....	- 17 -
6	Documentation.....	- 17 -
Annex A (Normative)	De-pollution.....	- 19 -
A.1	Introduction.....	- 19 -
A.2	Capacitors.....	- 19 -
A.3	Printed circuit boards.....	- 20 -
A.4	Gas discharge lamps and components containing mercury.....	- 20 -
A.5	Batteries and accumulators.....	- 20 -
A.6	Plastics.....	- 20 -
A.6.1	Introduction and flow diagram.....	- 20 -
A.6.2	Plastics fractions without brominated flame retardants (BFRs).....	- 21 -
A.7	Volatile fluorocarbons and volatile hydrocarbons.....	- 21 -
A.8	Asbestos.....	- 22 -
A.9	Components containing radioactive substances.....	- 22 -
Annex B (Normative)	De-pollution monitoring.....	- 23 -
B.1	Introduction.....	- 23 -
B.2	Capacitors, batteries.....	- 23 -
B.3	Analysis of fractions.....	- 23 -
B.4	Plastics.....	- 24 -
Annex C (Normative)	Determination of recycling and recovery rates.....	- 25 -
C.1	Introduction.....	- 25 -
C.2	Principles.....	- 25 -
C.3	Calculation.....	- 26 -
C.4	Documentation.....	- 27 -
C.5	Classification of final use of fractions.....	- 28 -
Annex D (Normative)	Requirements concerning processing of a batch.....	- 29 -
D.1	Introduction.....	- 29 -
D.2	Input material.....	- 29 -
D.3	Processing.....	- 31 -
D.4	Output fractions.....	- 31 -
D.5	Documentation and validation.....	- 32 -
Annex E (Void)	.....	- 33 -
Annex F (Informative)	Materials and components of WEEE requiring selective treatment.....	- 34 -
Annex G (Informative)	Documentation for downstream monitoring and establishment of recycling and recovery rates.....	- 36 -
G.1	Information requirements.....	- 36 -
Annex ZZ (Informative)	Coverage of Requirements of Commission Directive (EC) 2012/19/EU.....	- 37 -
Bibliography	.....	- 38 -

## Foreword

This document (EN 50625-1:2014) has been prepared by CLC/TC 111X "Environmental aspects for electrical and electronic products and systems".

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) 2015-01-27
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2017-01-27

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

This standard is based on a set of requirements prepared by the WEEE Forum aisbl and was adopted by CENELEC after public enquiry and formal vote according to the CENELEC Rules of Procedure.

This document has been prepared under mandate M/518 given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of Directive 2012/19/EU (WEEE).

For the relationship with the EU Directive see informative Annex ZZ, which is an integral part of this document.

## Introduction

This European Standard aims to assist organisations in:

- achieving effective and efficient treatment and disposal of Waste Electrical and Electronic Equipment (WEEE) in order to prevent pollution and minimise emissions;
- promoting increased material recycling;
- promoting high quality recovery operations;
- preventing inappropriate disposal of WEEE and fractions thereof;
- assuring protection of human health and safety, and the environment;
- preventing shipments of WEEE to operators whose operations fail to comply with this normative document or a comparable set of requirements.

This European Standard supports the objectives of the Community's environment policy. These aim to preserve, protect and improve the quality of the environment, protect human health and utilise natural resources prudently and rationally. That policy is based on the precautionary principle and the maxims that preventive action to minimise environmental damage should, where possible, be rectified at source and the polluter should pay.

This European Standard contains requirements applicable to the treatment of all types WEEE. In the future it will be supported by other standards covering particular treatment requirements for (gas discharge) lamps, flat panel displays, cathode ray tubes (CRTs), photovoltaic panels and other equipment containing volatile fluorocarbons or volatile hydrocarbons and other deliverables on collection and logistics, also re-use. Additionally this standard will be supported by a technical report which will provide a more detailed comparison between normative treatment requirements derived directly from the legal text of Directive 2012/19/EC, especially Annex VII, and between informative treatment requirements going beyond the strict requirements of Directive 2012/19/EC.

This European Standard has been prepared in order to support European legislation and so uses some of the terms defined in European law. In order to ensure that the definitions used in this standard are identical to those defined by law these terms are identified as 'void', indicating that this standard does not contain a definition, and a 'Note to entry' that identifies which law contains the legal definition and the term as defined in that law.

## 1 Scope

This European Standard is applicable to the treatment of waste electrical and electronic equipment (WEEE). This standard will be supplemented, for example by standards covering specific equipment.

NOTE This European Standard is intended to cover WEEE arising from electrical and electronic equipment as listed in Annex I and Annex III of Directive 2012/19/EU.

This standard applies to the treatment of WEEE until end-of-waste status is fulfilled, or until the WEEE is prepared for re-use, recycled, recovered, or disposed of.

This standard addresses all operators involved in the treatment including related handling, sorting, and storage of WEEE.

## 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 14899, *Characterization of waste — Sampling of waste materials — Framework for the preparation and application of a sampling plan*

EN 50574:2012, *Collection, logistics & treatment requirements for end-of-life household appliances containing volatile fluorocarbons or volatile hydrocarbons*

## 3 Terms and definitions

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

### 3.1

#### **acceptor**

##### 3.1.1

#### **acceptor**

organisation that physically and/or contractually takes ownership of WEEE fractions, after processing has been carried out by a treatment operator

##### 3.1.2

#### **first acceptor**

acceptor that directly accepts one or more WEEE fractions from the treatment operator

##### 3.1.3

#### **downstream acceptor**

every acceptor in the treatment chain following after the first acceptor

##### 3.1.4

#### **final acceptor**

acceptor where the final treatment step takes place

Note 1 to entry: Examples of final treatment steps are material recycling, energy recovery and disposal.

Note 2 to entry: Final acceptors receive final fractions.

### 3.2

#### **backlight**

part of the flat panel display, used with certain flat panel display technologies, that illuminates the flat panel to make the image visible