



NSAI
Standards

Irish Standard
I.S. EN 16485:2014

Round and sawn timber - Environmental Product Declarations - Product category rules for wood and wood-based products for use in construction

I.S. EN 16485:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

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

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

EN 16485:2014

Published:

2014-03-26

*This document was published
under the authority of the NSAI
and comes into effect on:*

2014-04-05

ICS number:

91.010.99

91.080.20

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 16485

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2014

ICS 91.010.99; 91.080.20

English Version

Round and sawn timber - Environmental Product Declarations - Product category rules for wood and wood-based products for use in construction

Bois ronds et sciages - Déclarations environnementales de
produits - Règles de définition des catégories de produits
en bois et à base de bois pour l'utilisation en construction

Rund- und Schnittholz - Umweltproduktdeklarationen -
Produktkategorieregeln für Holz und Holzwerkstoffe im
Bauwesen

This European Standard was approved by CEN on 3 February 2014.

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.



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

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

Contents

Page

Foreword.....	4
Introduction	5
1 Scope	6
2 Normative references	7
3 Terms and definitions	7
4 Abbreviations	8
5 General aspects	8
5.1 Objective of this general PCR for wood and wood-based construction products	8
5.2 Types of EPD with respect to life cycle stages covered	9
5.3 Comparability of EPD for construction products	9
5.4 Additional information	9
5.5 Ownership, responsibility and liability for the EPD	9
5.6 Communication formats	9
6 Product Category Rules for LCA.....	9
6.1 Product category	9
6.2 Life cycle stages and their information modules to be included	9
6.2.1 General.....	9
6.2.2 A1-A3, Product stage, information modules.....	10
6.2.3 A4-A5, Construction process stage, information modules	10
6.2.4 B1-B5, Use stage, information modules related to the building fabric	10
6.2.5 B6-B7, use stage, information modules related to the operation of the building.....	10
6.2.6 C1-C4 End-of-life stage, information modules	10
6.2.7 D, Benefits and loads beyond the system boundary, information module	10
6.3 Calculation rules for the LCA	10
6.3.1 Functional unit	10
6.3.2 Declared unit	10
6.3.3 Reference service life (RSL) (valid for cradle to gate with options and cradle to grave EPDs)	11
6.3.4 System boundaries.....	11
6.3.5 Criteria for the exclusion of inputs and outputs	18
6.3.6 Selection of data	19
6.3.7 Data quality requirements.....	19
6.3.8 Developing product level scenarios	19
6.3.9 Units	19
6.4 Inventory analysis.....	19
6.4.1 Collecting data	19
6.4.2 Calculation procedures	19
6.4.3 Allocation of input flows and output emissions.....	19
6.5 Impact assessment.....	22
7 Content of the EPD	22
7.1 Declaration of general information	22
7.2 Declaration of environmental parameters derived from LCA	22
7.2.1 Rules for declaring LCA information per module	22
7.2.2 Parameters describing environmental impacts.....	22
7.2.3 Parameters describing resource use.....	22
7.2.4 Other environmental information describing different waste categories and output flows.....	22

7.3	Scenarios and additional technical information	22
7.3.1	General	22
7.3.2	Construction process stage	22
7.3.3	B1-B7 use stage	23
7.3.4	End-of-life	23
7.4	Additional information on release of dangerous substances to indoor air, soil and water during the use stage	23
7.4.1	Indoor air	23
7.4.2	Soil and water	23
7.5	Aggregation of information modules	23
7.6	Additional environmental information	23
8	Project report	23
8.1	General	23
8.2	LCA-related elements of the project report	24
8.3	Documentation on additional information	25
8.4	Data availability for verification	25
9	Verification and validity of an EPD	25
	Bibliography	26

EN 16485:2014 (E)

Foreword

This document (EN 16485:2014) has been prepared by Technical Committee CEN/TC 175 “Round and sawn timber”, 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 September 2014 and conflicting national standards shall be withdrawn at the latest by September 2014.

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.

.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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

European Standard EN 15804 provides core product category rules for all construction products and services. It provides a structure to ensure that all Environmental Product Declarations (EPD) of construction products, construction services and construction processes are derived, verified and presented in a harmonized way.

This European Standard provides rules for Environmental Product Declarations (EPD) specifically for wood and wood-based products. It complements the core product category rules for all construction products and services as established in EN 15804.

An EPD communicates verifiable, accurate, non-misleading environmental information for products and their applications, thereby supporting scientifically based, fair choices and stimulating the potential for market-driven continuous environmental improvement.

The standardization process has taken place in accordance with EN ISO 14025. All common issues are covered horizontally for all product types in order to minimise vertical (branch specific) deviations. All common issues are covered horizontally for all wood and wood-based products in order to minimise intra-sectoral deviations.

EPD information is expressed in information modules as defined in EN 15804, which allow easy organization and expression of data packages throughout the life cycle of wood and wood-based products. The approach requires that the underlying data should be consistent, reproducible and comparable.

In line with EN 15804, the EPD is expressed in a form that allows aggregation (addition) to provide complete information for buildings. This standard does not deal with aggregation at the building level nor does this standard describe the rules for applying EPD in a building assessment.

The standard deals with a limited number of quantifiable parameters as predefined in EN 15804. Future revisions of EN 15804 may lead to the incorporation of additional predetermined parameters.

This European Standard provides the means for developing a Type III environmental declaration of wood and wood-based construction products in the context of the suite of standards that are intended to assess the sustainability of construction works.

This suite of standards includes:

- EN 15643-1, *Sustainability of construction works — Sustainability assessment of buildings — Part 1: General framework*
- EN 15643-2, *Sustainability of construction works — Assessment of buildings — Part 2: Framework for the assessment of environmental performance*
- EN 15978, *Sustainability of construction works — Assessment of environmental performance of buildings — Calculation method*
- EN 15804, *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products*
- CEN/TR 15941, *Sustainability of construction works — Environmental product declarations — Methodology for selection and use of generic data*
- EN 15942, *Sustainability of construction works — Environmental product declarations — Communication format business to business*

EN 16485:2014 (E)**1 Scope**

This European Standard provides general Product Category Rules (PCR) for Type III environmental declarations for wood and wood-based products for use in construction and related construction and in-service processes.

This European Standard complements the core rules for the product category of construction products as defined in EN 15804 and is intended to be used in conjunction with EN 15804.

NOTE The assessment of social and economic performances at product level is not covered by this standard.

The core PCR:

- define the parameters to be declared and the way in which they are collated and reported;
- describe which stages of a product's life cycle are considered in the EPD and which processes are to be included in the life cycle stages;
- define rules for the development of scenarios;
- include the rules for calculating the Life Cycle Inventory and the Life Cycle Impact Assessment underlying the EPD, including the specification of the data quality to be applied;
- include the rules for reporting predetermined, environmental and health information, that is not covered by LCA for a product, construction process and construction service where necessary;
- define the conditions under which construction products can be compared based on the information provided by EPD.

For the EPD of construction services, the same rules and requirements apply as for the EPD of construction products.

Additionally to the common parts of EN 15804, this European Standard for wood and wood-based products:

- defines the system boundaries;
- defines the rules for modelling and assessment of material-specific characteristics such as carbon storage and energy content of wood;
- defines allocation procedures for multi-output processes along the wood chain;
- defines allocation procedures for reuse, recycling and energy recovery;
- includes the rules for calculating the Life Cycle Inventory and the Life Cycle Impact Assessment underlying the EPD, including the assessment of carbon and energy content of wood;
- provides guidance/specific rules for the determination of the Reference Service Life (RSL).

This European Standard is intended to be used for cradle to gate or cradle to grave assessment, provided the intention is properly stated in the system boundary description.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-