

**Solid biofuels - Fuel specifications and classes - Part 5:  
Firewood for non-industrial use**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 14961-5:2011 sisaldab Euroopa standardi EN 14961-5:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.03.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 09.03.2011.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 14961-5:2011 consists of the English text of the European standard EN 14961-5:2011.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.03.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 09.03.2011.

The standard is available from Estonian standardisation organisation.

ICS 75.160.10

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English Version

**Solid biofuels - Fuel specifications and classes - Part 5:  
Firewood for non-industrial use**

Biocombustibles solides - Classes et spécifications des  
combustibles - Partie 5: Bois de chauffage à usage non  
industriel

Feste Biobrennstoffe - Brennstoffspezifikationen und  
-klassen - Teil 5: Stückholz für nichtindustrielle  
Verwendung

This European Standard was approved by CEN on 18 January 2011.

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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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## Contents

Page

<b>Foreword</b>	<b>3</b>
<b>Introduction</b>	<b>4</b>
<b>1 Scope</b>	<b>5</b>
<b>2 Normative references</b>	<b>5</b>
<b>3 Terms and definitions</b>	<b>5</b>
<b>4 Symbols and abbreviations</b>	<b>6</b>
<b>5 Specification of firewood for non-industrial use</b>	<b>6</b>
<b>Annex A (informative) Comparison of moisture content as received and dry basis</b>	<b>9</b>
<b>Annex B (informative) Comparison of different cubic meters</b>	<b>11</b>
<b>Bibliography</b>	<b>12</b>

## Foreword

This document (EN 14961-5:2011) has been prepared by Technical Committee CEN/TC 335 “Solid biofuels”, the secretariat of which is held by SIS.

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 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.

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.

The European standard series EN 14961 *Solid biofuels — Fuel specifications and classes* are provided as general requirements and additional product standards. Additional product standards may extend this series over time.

EN 14961 consists of the following parts, under the general title *Solid biofuels — Fuel specifications and classes*:

- *Part 1: General requirements;*
- *Part 2: Wood pellets for non-industrial use;*
- *Part 3: Wood briquettes for non-industrial use;*
- *Part 4: Wood chips for non-industrial use;*
- *Part 5: Firewood for non-industrial use;*
- *Part 6: Non woody pellets for non-industrial use (under development).*

Although these product standards may be obtained separately, they require a general understanding of the standards based on and supporting EN 14961-1. It is recommended to obtain and use EN 14961-1 in conjunction with these standards.

**NOTE** In these product standards, non-industrial use means fuel intended to be used in small-scale appliances, such as in households and small commercial and public sector buildings.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

## Introduction

This European Standard for "Fuel Specifications and Classes — Part 5 Firewood for non-industrial use" has been produced by CEN/TC 335 Solid Biofuels Working group "Fuel Specifications, Classes and Quality Assurance".

The objective of this European Standard is to provide unambiguous and clear classification principles for solid biofuels, to serve as a tool to enable efficient trading of biofuels and to enable good understanding between seller and buyer as well as a tool for communication with equipment manufacturers. It will also facilitate authority permission procedures and reporting.

This European Standard is made to support the use of firewood in non-industrial situations and specifically for the domestic/householder market and smaller commercial boiler situations, where sensitivity to the fuel quality can cause major issues. These consumers need special consideration for the following reasons:

- small-scale equipment does not usually have advanced controls and flue gas cleaning;
- it is not generally managed by professional heating engineers;
- they are often located in living and populated districts.

NOTE Firewood produced according to this European Standard can be used in stoves, fireplaces, cookers, roomheaters and multifired sauna stoves, which are tested according to EN 13229, EN 12815, EN 12809, EN 13240, EN 15250 and EN 15821, and boilers systems tested according to EN 303-5 ( $\leq 500 \text{ kW}_{th}$ ).

## 1 Scope

This European standard determines the fuel quality classes and specifications for firewood for non-industrial use. This European standard covers only firewood produced from the following raw material (see EN 14961-1:2010, Table 1):

- 1.1.1 Whole trees without roots;
- 1.1.3 Stem wood;
- 1.1.4 Logging residues (thick branches, tops, etc.).
- 1.2.1 Chemically untreated wood residues;

NOTE For the avoidance of doubt, demolition wood is not included in the scope of this European Standard. Demolition wood is “used wood arising from demolition of buildings or civil engineering installations” (EN 14588:2010, 4.52).

## 2 Normative references

The following referenced document is indispensable for the application 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 14588:2010, *Solid biofuels — Terminology, definitions and descriptions*

EN 14774-1, *Solid biofuels — Determination of moisture content — Oven dry method — Part 1: Total moisture — Reference method*

EN 14774-2, *Solid biofuels — Determination of moisture content — Oven dry method — Part 2: Total moisture — Simplified method*

EN 14961-1:2010, *Solid biofuels — Fuel specification and classes — Part 1: General requirements*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14588:2010 and the following apply.

### 3.1

#### **firewood**

cut and split oven-ready fuelwood used in household wood burning appliances like stoves, fireplaces and central heating systems

NOTE Firewood usually has a uniform length, typically in the range of 15 cm to 100 cm.