



National Standards Authority of Ireland

IRISH STANDARD

**S.R. CEN/TS 15534-2:2007**

ICS 79.060.01

**WOOD-PLASTICS COMPOSITES (WPC) -  
PART 2: CHARACTERISATION OF WPC  
MATERIALS**

National Standards  
Authority of Ireland  
Glasnevin, Dublin 9  
Ireland

Tel: +353 1 807 3800  
Fax: +353 1 807 3838  
<http://www.nsai.ie>

**Sales**

<http://www.standards.ie>

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TECHNICAL SPECIFICATION  
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**CEN/TS 15534-2**

May 2007

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English Version

**Wood-plastics composites (WPC) - Part 2: Characterisation of  
WPC materials**

Composites bois-plastiques (WPC) - Partie 2 :  
Caractérisation des matériaux WPC

Holz-Kunststoff-Verbundstoffe (WPC) - Teil 2:  
Beschreibung von WPC-Werkstoffen

This Technical Specification (CEN/TS) was approved by CEN on 29 December 2006 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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EUROPÄISCHES KOMITEE FÜR NORMUNG

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

## **CEN/TS 15534-2:2007 (E)**

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## **Foreword**

This document (CEN/TS 15534-2:2007) has been prepared by Technical Committee CEN/TC 249 “Plastics”, the secretariat of which is held by NBN.

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.

CEN/TS 15534 consists of the following parts, under the general title *Wood plastics composites (WPC)*:

- *Part 1: Test methods for characterisation of WPC materials and products*
- *Part 2: Characterisation of WPC materials*
- *Part 3: Characterisation of WPC products*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, 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.

## CEN/TS 15534-2:2007 (E)

### 1 Scope

This Technical Specification identifies the required and optional properties of wood-plastics composite (WPC) materials. It is intended to be used as a basis for the specifications of WPC materials.

### 2 Normative references

The following referenced documents are 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 117, *Wood preservatives — Determination of toxic values against Reticulitermes species (European termites) (laboratory method)*

EN 317, *Particleboards and fibreboards — Determination of swelling in thickness after immersion in water*

EN 1534, *Wood and parquet flooring — Determination of resistance to indentation (Brinell) — Test method*

ENV 12038, *Durability of wood and wood-based products — Wood-based panels — Method of test for determining the resistance against wood-destroying basidiomycetes*

CEN/TS 15083-2, *Durability of wood and wood-based products — Determination of the natural durability of solid wood against wood-destroying fungi, test methods — Part 2: Soft rotting micro-fungi*

prEN 15458, *Paints and varnishes — Laboratory method for testing the efficacy of film preservatives in a coating against algae*

CEN/TS 15534-1:2007, *Wood-plastics composites (WPC) — Part 1: Test methods for characterisation of WPC materials and products*

EN ISO 75-1, *Plastics — Determination of temperature of deflection under load — Part 1: General test method (ISO 75-1:2004)*

EN ISO 75-2, *Plastics — Determination of temperature of deflection under load — Part 2: Plastics, ebonite and long-fibre-reinforced composites (ISO 75-2:2004)*

EN ISO 178, *Plastics — Determination of flexural properties (ISO 178:2001)*

EN ISO 179-1, *Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test (ISO 179-1:2000)*

EN ISO 527-1, *Plastics — Determination of tensile properties — Part 1: General principles (ISO 527-1:1993 including Corr 1:1994)*

EN ISO 527-2, *Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics (ISO 527-2:1993 including Corr 1:1994)*

EN ISO 899-2, *Plastics — Determination of creep behaviour — Part 2: Flexural creep by three-point loading (ISO 899-2:2003)*

EN ISO 1183-1, *Plastics — Methods for determining the density of non-cellular plastics — Part 1: Immersion method, liquid pycnometer method and titration method (ISO 1183-1:2004)*

EN ISO 1183-3, *Plastics — Methods for determining the density of non-cellular plastics — Part 3: Gas pycnometer method (ISO 1183-3:1999)*

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