

Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 5: Specifications for cladding profiles and tiles

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 15534-5:2014 sisaldab Euroopa standardi EN 15534-5:2014 inglisekeelset teksti.	This Estonian standard EVS-EN 15534-5:2014 consists of the English text of the European standard EN 15534-5:2014.
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English Version

**Composites made from cellulose-based materials and
thermoplastics (usually called wood-polymer composites (WPC)
or natural fibre composites (NFC)) - Part 5: Specifications for
cladding profiles and tiles**

Composites à base de matières cellulosiques et de
thermoplastiques (communément appelés composites bois-
polymères (WPC) ou composites fibres d'origine naturelle
(NFC)) - Partie 5: Spécifications relatives aux lames et
plaques pour bardage et lambris

Verbundwerkstoffe aus cellulosehaltigen Materialien und
Thermoplasten (üblicherweise Holz-Polymer-Werkstoffe
(WPC) oder Naturfaserverbundwerkstoffe (NFC) genannt) -
Teil 5: Anforderungen an Profile und Formteile für
Wandbekleidungen

This European Standard was approved by CEN on 9 November 2013.

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.

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Foreword

This document (EN 15534-5:2014) has been prepared by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by NBN.

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of an identical text or by endorsement, at the latest by July 2014, and conflicting national standards shall be withdrawn at the latest by July 2014.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.

This document together with EN 15534-4:2014 supersedes CEN/TS 15534-3:2007.

The significant changes that have been made since the previous edition are the following:

- splitting into Parts 4 and 5 of CEN/TS 15534-3:2007;
- change of the status from Technical Specification to European Standard;
- complete technical review of the document;
- change of the scope from characterization to specification of the products.

EN 15534 consists of the following parts:

- EN 15534-1, *Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) — Part 1: Test methods for characterization of compounds and products*
- prEN 15534-2, *Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) — Part 2: Characterization of compounds¹⁾*
- EN 15534-4, *Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) — Part 4: Specifications for decking profiles and tiles*
- EN 15534-5, *Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) — Part 5: Specifications for cladding profiles and tiles*
- prEN 15534-6, *Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) — Part 6: Specifications for fencing profiles and systems¹⁾*
- prEN 15534-7, *Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) — Part 7: Specifications for general purpose profiles in external applications¹⁾*

¹⁾ In preparation.

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.

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1 Scope

This European Standard specifies the characteristics of cladding profiles and tiles made from cellulose-based materials and thermoplastics, usually called wood-polymer composites (WPC) or natural fibre composites (NFC), for external or internal use.

This part of EN 15534 is applicable to extruded profiles but also to tiles manufactured by other plastics processing techniques, e.g. injection moulding.

It is not applicable to support rail profiles, cover strip profiles and fastener devices which are out of the scope of this part of EN 15534.

EN 15534-1 specifies the test methods relevant to this part of EN 15534.

NOTE For editorial reasons, in EN 15534 the abbreviation "WPC" is used for "composites made from cellulose-based materials and thermoplastics".

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 927-6, *Paints and varnishes — Coating materials and coating systems for exterior wood — Part 6: Exposure of wood coatings to artificial weathering using fluorescent UV lamps and water*

EN 15534-1:2014, *Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) — Part 1: Test methods for characterization of compounds and products*

EN 16472, *Plastics — Method for artificial accelerated photoageing using medium pressure mercury vapour lamps*

EN ISO 4892-2, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps (ISO 4892-2)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15534-1:2014 apply.

4 Requirements

4.1 General

Initial type testing shall be performed to demonstrate compliance with the requirements specified in Clause 4 of this part of EN 15534. The tests according to 4.5.6 shall be carried out if the performance is declared by the manufacturer. Initial type testing shall be repeated, whenever a change occurs in the composition of the product, its geometry or in the production process. In case of a minor change, only the properties which could be influenced by this change shall be tested.

NOTE Minimum frequencies of testing for factory production control purposes are given in Annex A.