

# **Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors - Determination of heat reversion**

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the fabrication of windows and doors - Determination  
of heat reversion

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 479:2003 sisaldab Euroopa standardi EN 479:1995 ingliskeelset teksti.	This Estonian standard EVS-EN 479:2003 consists of the English text of the European standard EN 479:1995.
Käesolev dokument on jõustatud 14.08.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 14.08.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

<b>Käsitlusala:</b> This European Standard specifies a method for the determination of the heat reversion of unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors by a test at 100 °C in an oven	<b>Scope:</b> This European Standard specifies a method for the determination of the heat reversion of unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors by a test at 100 °C in an oven
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**ICS** 83.140, 91.060.50

**Võtmesõnad:** buildings, determination, high temperature tests, non-metallic sections, shrinkage, unplasticized polyvinylchloride, windows

ICS 83.140; 91.060.50

Descriptors: PVC, profiles, windows, doors, testing, heat reversion.

**English version**

**Unplasticized polyvinylchloride (PVC-U) profiles for  
the fabrication of windows and doors**

Determination of heat reversion

Profils de polychlorure de vinyle non  
plastifié (PVC-U) pour la fabrication des  
fenêtres et des portes; détermination du  
retrait à chaud

Profile aus weichmacherfreiem Polyvinyl-  
chlorid (PVC-U) zur Herstellung von  
Fenstern und Türen; Bestimmung des  
Wärmeschrumpfes

This European Standard was approved by CEN on 1995-05-02.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CEN**

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

**Central Secretariat: rue de Stassart 36, B-1050 Brussels**

## **Foreword**

This European Standard has been prepared by the Technical Committee CEN/TC 33 "Windows, doors, shutters, building hardware and curtain walling" of which the secretariat is held by AFNOR.

The requirements are incorporated in the product standards concerned.

This European Standard will result in one of a series of standards on test methods which supports a product standard for PVC-U profiles for the fabrication of windows and doors.

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 November 1995, and conflicting national standards shall be withdrawn at the latest by November 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## **1 Scope**

This European Standard specifies a method for the determination of the heat reversion of unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors by a test at 100 °C in an oven.

## **2 Principle**

A test piece of a specified length of profile is maintained in an oven at 100 °C for 1 h.

A marked length of this test piece is measured under identical conditions, before and after heating in the oven.

The heat reversion is calculated as the percentage change of the final length relative to the initial length per pair of marks.

For main profiles the differential heat reversion is calculated as the difference between the heat reversion of opposite sight surfaces of each test piece.

## **3 Definitions**

For the purpose of this European Standard the following definitions apply :

### **3.1 main profile**

A profile, which has a load bearing function in the construction of windows and doors.

### **3.2 auxiliary profile**

A profile, which has no load bearing function in the construction of windows and doors.

### **3.3 sight surface**

A face surface of a profile, that is exposed to view, when the window or door is closed.

## **4 Apparatus**

**4.1** Air oven, thermostatically controlled, with forced air circulation, in which the test pieces can be exposed to a temperature of 100 °C.

The oven shall be equipped with a thermostat capable of maintaining the temperature at  $(100 \pm 2)$  °C.

**4.2** Thermometer, graduated in 0,5 °C.