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**Netekstilne talne obloge - Polivinilkloridne talne obloge za uporabo na izjemno vlažnih površinah - Specifikacija**

Resilient floor coverings - Polyvinyl chloride floor coverings for use in special wet areas - Specification

Elastische Bodenbeläge - Polyvinylchlorid-Bodenbeläge zur Anwendung in besonderen Naßräumen - Spezifikation

Revetements de sol résiliants - Revêtements de sol à base de polychlorure de vinyle pour zones humides spéciales - Spécifications

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97.150      Netekstilne talne obloge      Non-textile floor coverings

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EUROPEAN STANDARD

EN 13553

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2002

ICS 97.150

English version

## Resilient floor coverings - Polyvinyl chloride floor coverings for use in special wet areas - Specification

Revêtements de sol résilients - Revêtements de sol à base de polychlorure de vinyle pour zones humides spéciales - Spécifications

Elastische Bodenbeläge - Polyvinylchlorid-Bodenbeläge zur Anwendung in besonderen Nassräumen - Spezifikation

This European Standard was approved by CEN on 23 February 2002.

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 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 Management Centre has the same status as the official versions.

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

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## Foreword

This document EN 13553 has been prepared by Technical Committee CEN/TC 134 "Resilient and textile floor coverings", the secretariat of which is held by BSI.

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 October 2002, and conflicting national standards shall be withdrawn at the latest by October 2002.

Requirements for enhanced slip resistance of products other than those of EN 649 and EN 651 are under development and will be incorporated in this document, by revision, when available.

Annex A is normative, and the annexes B, C and D are informative.

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

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**EN 13553:2002 (E)****1 Scope**

This European standard specifies the minimum additional characteristics which are necessary for:

- polyvinyl chloride floor coverings in roll form according to EN 649, and
- polyvinyl chloride floor coverings with foam backing in roll form to EN 651

to be installed satisfactorily in special wet areas to form a watertight installation with a long life. It specifies two categories (A and B) for use on different substrates.

**2 Normative references**

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 428, *Resilient floor coverings — Determination of overall thickness.*

EN 429, *Resilient floor coverings — Determination of the thickness of layers.*

EN 435, *Resilient floor coverings — Determination of flexibility.*

EN 649, *Resilient floor coverings — Homogenous and heterogeneous polyvinylchloride floor coverings — Specification.*

EN 651, *Resilient floor coverings — Polyvinyl chloride floor coverings with foam layer — Specification.*

EN 661, *Resilient floor coverings — Determination of the spreading of water.*

EN 684:1995, *Resilient floor coverings — Determination of seam strength.*

EN 12466, *Resilient floor coverings – Vocabulary.*

**3 Terms and definitions**

For the purposes of this European Standard the terms and definitions of EN 12466 and the following term and definition apply:

**3.1  
special wet area**

area where floors are designed to be frequently or permanently wet and equipped with a floor-based drain, for example bathrooms with free-standing tubs, shower rooms without partitions

## 4 Requirements

### 4.1 General requirements

Products covered by this standard shall conform to the requirements of EN 649 or EN 651.

### 4.2 Additional performance requirements

Floor coverings conforming to the requirements of EN 649 or EN 651 are suitable for special wet areas when they meet the additional requirements specified in Table 1.

**Table 1 — Products suitable for special wet areas**

Characteristic	Identity code W1	Identity code W2	Identity code W3	Test method
Floor covering type <sup>1)</sup>	Floor coverings conforming to EN 649	Floor coverings conforming to EN 649	Floor coverings conforming to EN 651	
Substrate type <sup>2)</sup>	Category A	Category B	Category A	
Overall thickness Nominal mm	≥ 1,5	≥ 2,0		EN 428
Total thickness of compact layers mm	As for overall thickness	As for overall thickness	≥ 1,0	EN 429
Spreading of water (days)	-	-	≥ 7	EN 661
Seam strength when welded to the manufacturer's instruction N/50 mm	≥ 240	≥ 400	≥ 240	EN 684
Flexibility	When bent around a mandrel of 10 mm diameter, no cracking or other surface deterioration shall be visible with the naked eye  For heterogeneous materials the test shall be made with the surface side as well as the reverse side outwards.			EN 435
Watertightness	The welded product shall be classified watertight.			Annex A
<sup>1)</sup> For installation see annex C				
<sup>2)</sup> For choice of category see annex B				

### 4.3 Installation

See annex C.

**EN 13553:2002 (E)****5 Marking**

Floor coverings covered by this standard and/or their packaging shall bear the following marking in addition to the marking according to EN 649 or EN 651:

- a) number and date of this European Standard (EN 13553);
- b) identity code W1, W2 or W3;
- c) category A or B.

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## Annex A (normative)

### Watertightness test

#### A.1 Scope

This annex describes a method for testing the watertightness of floor coverings.

#### A.2 Apparatus

**A.2.1 A base of non porous material such as metal or glass**, on which the sample rests during testing.

NOTE If the base is transparent and suitably supported, it will enable any leakage to be observed from below.

**A.2.2 A watertight, bottomless box-frame**, to be placed on top of the test specimen. The box shall have vertical sides of at least 300 mm and shall cover a surface area of at least 300 mm × 500 mm. The box will be supporting water pressure and should therefore be held in place by clamps or weights.

The box-frame shall be sealed to achieve watertightness between the floor covering and the box frame.

**A.2.3 Indicator paper**, sensitive to moisture.

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#### A.3 Test specimen

The test specimen shall be flat or capable of being flattened so that it lies flat on the base. The base may be covered by polyethylene foil or similar material. When preparing test specimens the manufacturer's instructions shall be observed.

The size of the specimen shall be at least 500 mm × 800 mm and it shall be provided with seams welded in accordance with the manufacturer's recommendations, (see figure A.1).