



SLOVENSKI STANDARD
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Podloge za športne dejavnosti - Ugotavljanje trdnosti spoja športnih podlog iz umetnih snovi

Surfaces for sports areas - Determination of joint strength of synthetic surfaces

Sportböden - Bestimmung der Nahtfestigkeit von Kunststoffbelägen

Sols sportifs - Détermination de la résistance des joints

Ta slovenski standard je istoveten z: FprEN 12228

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English Version

Surfaces for sports areas - Determination of joint strength of synthetic surfaces

Sols sportifs - Détermination de la résistance des joints

Sportböden - Bestimmung der Nahtfestigkeit von
Kunststoffbelägen

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 217.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (FprEN 12228:2013) has been prepared by Technical Committee CEN/TC 217 “Surfaces for sports areas”, the secretariat of which is held by BSI.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 12228:2002.

1 Scope

This European Standard specifies two test methods for the determination of joint strength of synthetic sports surfaces including synthetic turf. Method 1 describes a procedure for butt joints and overlapped adhesive joints in which a direct force is applied. Method 2 describes a procedure for reinforced butt joints in which a peel force is applied.

2 Normative references

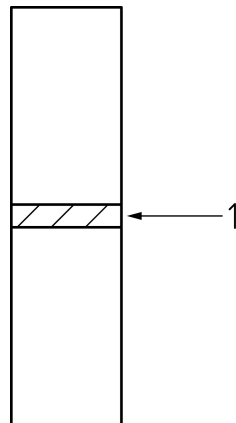
The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 7500-1:2004, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system (ISO 7500-1:2004)*

3 Method 1 — Direct tension method

3.1 General

This method is suitable for testing all types of synthetic sports surfaces that incorporate sewn, chemically welded, hot melt bonded or mechanically bonded butt joints as the manner of joining adjacent lengths of synthetic sports surfacing (see Figure 1).



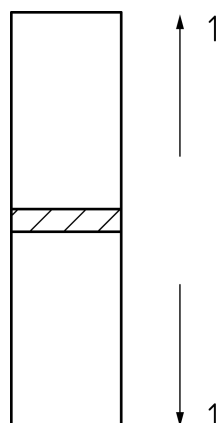
Key

- 1 chemical, hot melt adhesive/mechanical joint (including sewn seams)

Figure 1 — Butt joint

3.2 Principle

An increasing tensile force is applied perpendicular to the joint until it breaks and the maximum force applied is recorded (see Figure 2).



Key

1 tensile force

Figure 2 — Principle of test — Direct tension method

3.3 Apparatus

3.3.1 Tensile testing machine, conforming to class 1 of EN ISO 7500-1:2004.

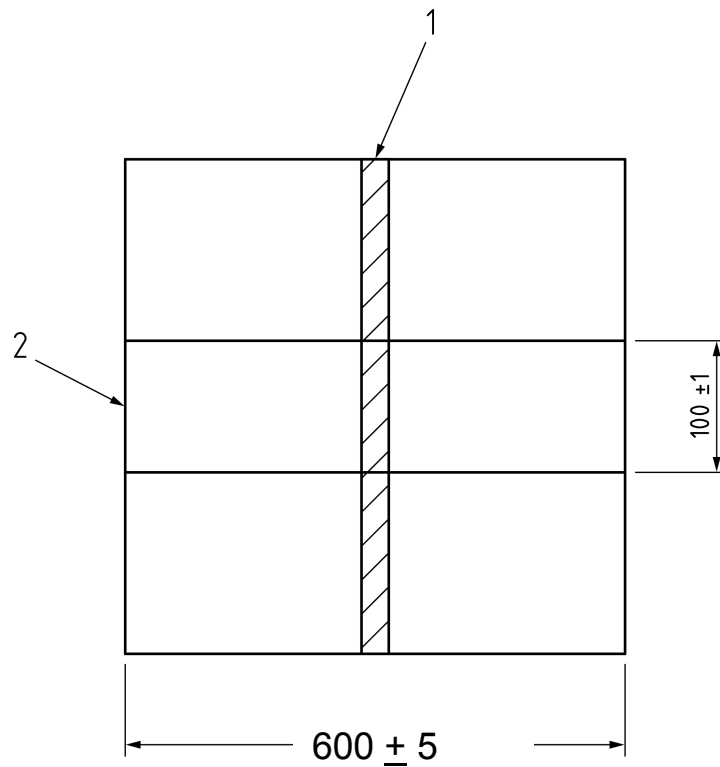
3.3.2 Jaws, which are sufficiently wide to hold the entire width of the test piece and with appropriate means to avoid slippage or damage.

3.4 Test piece

3.4.1 Stitched or welded joint

Cut from a sample of surface five test pieces of minimum length 600 mm and width (100 ± 1) mm with the joint centrally located 200 mm across each test piece (see Figure 3).

Dimensions in millimetres

**Key**

1 joint

Figure 3 — Test piece layout stitched or welded joint

For any test piece containing a stitched joint, the stitching shall be tied off at the edge of the joint to prevent running.

3.4.2 Stitched or welded joints incorporating jointing tape

Cut from a sample of surface five test pieces, the length of which shall be the width of the backing material plus 100 mm each side of the backing material and width (100 ± 1) mm (see Figure 4).