

---

## Surfaces for sports areas—Methods of test

### Method 3: Determination of joint strength of synthetic surfaces

This national Standard is the identical implementation of EN 12228:2002 and is adopted with permission of CEN, Rue de Stassart 36, B-1050 Brussels

---

#### PREFACE

This Standard was prepared by Standards Australia Committee PL-048, Sporting Surfaces.

This Standard is identical with and has been reproduced from EN 12228:2002, *Surfaces for sports areas—Determination of joint strength of synthetic surfaces*.

The objective of this Standard is to specify two test methods for 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.

As this Standard is reproduced from a European Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this European Standard’ should read ‘this Australian Standard’.

A full point substitutes for a comma when referring to a decimal marker.

## CONTENTS

	<i>Page</i>
1 SCOPE.....	1
2 NORMATIVE REFERENCE .....	1
3 METHOD 1—DIRECT TENSION METHOD .....	1
3.1 GENERAL .....	1
3.2 PRINCIPLE .....	2
3.3 APPARATUS.....	3
3.4 TEST PIECE .....	3
3.5 CONDITIONING AND TEST TEMPERATURE.....	5
3.6 PROCEDURE .....	5
3.7 CALCULATION AND EXPRESSION OF RESULTS .....	6
4 METHOD 2—PEEL METHOD.....	6
4.1 GENERAL .....	6
4.2 PRINCIPLE .....	6
4.3 APPARATUS.....	7
4.4 TEST PIECE .....	7
4.5 CONDITIONING AND TEST TEMPERATURE.....	8
4.6 PROCEDURE .....	8
4.7 CALCULATION AND EXPRESSION OF RESULTS .....	9
5 TEST REPORT .....	9

## METHOD

### 1 Scope

This European Standard specifies two test methods for 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 reference

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 ISO 7500-1, *Metallic materials - Verification of static uniaxial testing machines - Part 1: Tension/compression testing machines (ISO 7500-1:1999)*.

### 3 Method 1 — Direct tension method

#### 3.1 General

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