



BSI Standards Publication

# **Surface for sports areas — Method of test for the determination of shock absorption, vertical deformation and energy restitution using the advanced artificial athlete**

### National foreword

This Published Document is the UK implementation of CEN/TS 16717:2015.

The document has been produced as a Technical Specification as it describes a new method of measuring the dynamic properties of sports surfaces. Whilst the procedure has been used for several years on long pile synthetic turf sports surfaces, there is little experience of using it on low shock absorbing and deforming surfaces. Additionally, the current calculation of energy restitution and its relevance is currently being further researched.

The UK technical committee advises that users of this Technical Specification should be aware of the following:

- The test results recorded on systems below 25% shock absorption should be used as indicative and not definitive.
- The test results recorded on systems below 4 mm deformation should be used as indicative and not definitive.
- Energy restitution calculation may differ in the future when current research is completed.

The UK participation in its preparation was entrusted to Technical Committee PRI/57, Surfaces for sports areas.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Compliance with a British Standard cannot confer immunity from legal obligations.**

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### Amendments/corrigenda issued since publication

Date	Text affected
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English Version

**Surface for sports areas - Method of test for the determination of  
shock absorption, vertical deformation and energy restitution  
using the advanced artificial athlete**

Sols sportifs - Méthode d'essai de détermination de  
l'absorption des chocs, de la déformation verticale et de la  
restitution d'énergie, au moyen de l'athlète artificiel amélioré

Sportböden - Prüfverfahren zur Bestimmung des  
Kraftabbaus, der vertikalen Verformung und der  
Energierückgabe mit dem weiterentwickelten künstlichen  
Sportler

This Technical Specification (CEN/TS) was approved by CEN on 14 July 2014 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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