

Artificial sports surfaces —

Part 2: Methods of test —

Section 2.2 Methods for determination of person/surface interaction

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Textiles and Clothing Standards Policy Committee (TCM/-) to Technical Committee TCM/14, upon which the following bodies were represented:

- Birmingham City
- British Amateur Athletic Board
- British Amateur Weight Lifters' Association
- British Association of Advisers and Lecturers in Physical Education
- British Leather Confederation
- British Sports and Allied Industries Federation
- Central Council of Physical Recreation
- City of Glasgow
- Consumer Policy Committee of BSI
- Department of the Environment (Building Research Establishment)
- Department of Trade and Industry (Consumer Affairs Division)
- English Basketball Association
- Home Office
- Institute of Trading Standards Administration
- Ministry of Defence
- Physical Education Association of Great Britain and Northern Ireland
- Recreation and Leisure Trade Association
- Sports Council

The following BSI references relate to the work on this standard: standard, through subcommittees and panels:

- Association of District Councils
- British Floor Covering Manufacturers' Association
- British Plastics Federation
- Institute of Leisure and Amenity Management
- RAPRA Technology Ltd.
- Sports Turf Research Institute
- Textile Institute
- Textile Research Council

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Contents

	Page
Committees responsible	Inside front cover
Foreword	ii
1 Scope	1
2 Method 1. Determination of traction	1
3 Method 2. Determination of sliding distance	1
4 Method 3. Determination of slip resistance	3
5 Method 4. Determination of peak deceleration	6
Figure 1 — Traction apparatus	2
Figure 2 — Foot assembly and trolley	4
Figure 3 — Inclined plane and track	5
Table 1 — Properties of rubber slider	3
Publications referred to	Inside back cover

Foreword

This Section of BS 7044 has been prepared under the direction of the Textiles and Clothing Standards Policy Committee and forms part of a comprehensive British Standard on artificial sports surfaces. A classification and general introduction is given in Part 1.

This Section supersedes BS 7044-2.2:1989 which is withdrawn. This edition introduces an additional method but does not reflect a full review or revision of the standard which will be undertaken in due course.

This Section of BS 7044 describes four methods of test.

Method 1 is based on the method of test for traction described by Canaway and Bell (1986).

Method 2 is based on the method of test for sliding resistance given in the 1985 Sports Council report, "Artificial Grass Surfaces for Association Football".

Method 3 is largely based on the method of test for friction given in the Sports Council Specification for Artificial Sports Surfaces, 1984.

In method 4 the apparatus is similar to that given in the Sports Council Specification for Artificial Sports Surfaces, 1984, for measuring severity index but it has been modified to be equivalent to that specified in BS 7188. In the Sports Council Specification, the severity index was measured, i.e. a mathematical integration of the area under a plot of deceleration versus time for the entire impact event. In this standard the peak deceleration is measured because, whereas the concept of severity index is well established as a meaningful assessment of a surface in relation to head injuries, the committee does not consider that such a relationship has been established for the impacts of various parts of the body which may occur in sports.

WARNING NOTE. These methods do not necessarily detail all precautions necessary to meet the requirements of the Health and Safety at Work etc. Act 1974. Attention should be paid to any appropriate safety precautions and the methods should be operated only by trained personnel.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.