



# MALAYSIAN STANDARD

MS 2665-2:2017

## Playground surfacing - Part 2: Impact attenuation of surfacing materials within the use zone of playground equipment - Specification

**ICS: 97.200.40**

Descriptors: attenuation, impact, critical fall height, performance test, playground equipment, playground surfaces, injury, shock, play structure, surface

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NOTE: Technical corrigenda are not to correct errors which can be assumed to have no consequences in the application of the MS, for example minor printing errors.

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## Committee representation

The Industry Standards Committee on Mechanical Engineering (ISC F) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Department of Occupational Safety and Health Malaysia  
Department of Standards Malaysia  
Jabatan Kerja Raya Malaysia  
Machinery and Equipment Manufacturers' Association  
Malaysian Industrial Development Authority  
Malaysian Iron and Steel Industry Federation  
Ministry of International Trade and Industry  
National Institute of Occupational Safety and Health  
Petroleum Nasional Berhad  
Science and Technology Research Institute for Defence  
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Suruhanjaya Tenaga  
The Institution of Engineers, Malaysia  
Universiti Kebangsaan Malaysia  
Universiti Malaya  
Universiti Sains Malaysia  
Universiti Teknologi Malaysia

The Technical Committee on Mechanical Safety for Consumer Use which recommended the adoption of the ASTM Standard as Malaysian Standard consists of representatives from the following organisations:

Consumers Association of Penang  
Department of Chemistry, Malaysia  
Department of Occupational Safety and Health Malaysia  
Malaysian Association of Standards Users  
Ministry of Domestic Trade, Co-operatives and Consumerism  
Ministry of Health Malaysia  
SIRIM Berhad (Secretariat)  
SIRIM QAS International Sdn Bhd  
The Institution of Engineers, Malaysia  
Universiti Teknologi Malaysia

### Co-opted members:

Dewan Bandaraya Kuala Lumpur  
Fairmont Industries Sdn Bhd  
Greenhill Industries Sdn Bhd  
Institut Landkap Akitek Malaysia  
Jabatan Landskap Negara  
Ministry of Health Malaysia (Engineering Services Division)  
Perbadanan Putrajaya  
Playground Safety Association of Malaysia  
Pro Landscape Structure Sdn Bhd  
Unique Green Recreation Sdn Bhd  
Universiti Teknologi MARA

## Foreword

The adoption of the ASTM Standard as a Malaysian Standard was recommended by the Technical Committee on Mechanical Safety for Consumer Use under the authority of the Industry Standards Committee on Mechanical Engineering.

This Malaysian Standard is identical with ASTM F1292-13, *Specification for impact attenuation of surfacing materials within the use zone of playground equipment*, published by the ASTM International with the exceptions as listed below.

a) Clause/Subclause	Exceptions
Title	Change the title to, <i>Playground surfacing - Part 2: Impact attenuation of surfacing materials within the use zone of playground equipment - Specification</i>
4.3.2; 5.2; 12; and 12.3.1.	Exclude -6 °C as one of test temperatures due to the hot and humid climate in Malaysia
General	With regard to accessibility to the playground, MS 1184 shall be made reference if applicable

- b) reference to ASTM Standards should be replaced by equivalent Malaysian Standards as follows:

<u>Referenced ASTM Standards</u>	<u>Corresponding Malaysian Standards</u>
ASTM F 1487, <i>Standard consumer safety performance specification for playground equipment for public use</i>	MS 966, <i>Playground equipment - Safety performance for public use - Specification</i>

MS 2665 consists of the following parts, under the general title *Playground surfacing*:

*Part 1: Standard guide*

*Part 2: Impact attenuation of surfacing materials - Specification*

This Malaysian Standard cancels and replaces the following:

- a) MS 966: Part 2:2001, *Playground equipment: Part 2: General safety requirements (First revision)*; and
- b) MS 966: Part 3:2001, *Playground equipment: Part 3: Test method (First revision)*.

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