



**National Standards Authority of Ireland**

**STANDARD**

**I.S. EN 13287:2004**

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**PERSONAL PROTECTIVE EQUIPMENT -  
FOOTWEAR - TEST METHOD FOR SLIP  
RESISTANCE**

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English version

## Personal protective equipment - Footwear - Test method for slip resistance

Équipement de protection individuelle - Chaussures -  
Méthode d'essai pour déterminer la résistance au  
glissement

Persönliche Schutzausrüstung - Schuhe - Prüfverfahren zur  
Bestimmung der Rutschhemmung

This European Standard was approved by CEN on 2 February 2004.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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## **Foreword**

This document (EN 13287:2004) has been prepared by Technical Committee CEN/TC 161 “Foot and leg protectors”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2004 and conflicting national standards shall be withdrawn at the latest by September 2004.

This document supersedes ENV 13287:2002.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

Annexes A and B are normative.

This document includes a Bibliography.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## EN 13287:2004 (E)

### 1 Scope

This European Standard specifies a method of test for the slip resistance of conventionally soled safety, protective and occupational footwear. It is not applicable to special purpose footwear containing spikes, metal studs or similar.

### 2 Normative references

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 20344, *Personal protective equipment – Test methods for footwear (ISO 20344:2003)*.

EN ISO 4287, *Geometrical product specifications (GPS) - Surface texture: Profile method - Terms, definitions and surface texture parameters (ISO 4287:1997)*.

### 3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

- 3.1**  
**normal force**  
force applied to the footwear, perpendicular (90°) to the surface
- 3.2**  
**frictional force**  
force parallel to the surface and against the direction of movement arising when footwear slides over a surface
- 3.3**  
**coefficient of friction (CoF)**  
ratio of the frictional force divided by the normal force
- 3.4**  
**static contact time**  
time between first contact of the footwear with the surface at 50 N normal force and beginning of movement
- 3.5**  
**measurement period**  
time interval during which the frictional force measurement is taken and during which the test conditions are satisfied
- 3.6**  
**surface**  
floor, with or without contaminant (lubricant), against which the footwear is tested

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