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British Standard Specification for

# Lined rubber boots with protective (penetration resistant) midsoles

Spécification des bottes doublées en élastomère à entre-deux de protection (résistant à la pénétration)

Spezifikation für ausgefüllte Gummistiefel mit schützenden (penetrationsbeständigen) Mittelsohlen

## Foreword

This British Standard specifies requirements for lined rubber boots, with protective midsoles, of both hand made and moulded construction. The midsoles of the boots are intended to protect the wearer from injury due to penetration of the soles of the boots by sharp objects such as nails and screws. The standard refers to the tests of BS 953 as well as the design and material requirements of BS 5145.

The standard does not deal with requirements of boots for protection against electric shock. Lined rubber boots with safety toe-caps and protective midsoles and with safety toe-caps only are covered by BS 1870 : Part 2.

*Certification.* Attention is drawn to the certification facilities described overleaf.

## 1. Scope

This British Standard specifies the minimum requirements for lined rubber boots with protective midsoles.

## 2. References

The titles of the standards publications referred to in this standard are listed below.

## 3. Materials and design

Boots shall comply with the material and design requirements of BS 5145 except that the minimum height of ankle boots shall be 115 mm, unless otherwise agreed between the purchaser and the supplier.

All metal parts shall be effectively protected against corrosion, either by provision of a bonded rubber cover or by other suitable integral treatment.

Boots shall incorporate a protective midsole. The margin between a protective midsole and the edge of the insole shall be not greater than 6.3 mm.

## 4. Performance requirements

**4.1 General.** Boots shall comply with the performance requirements of BS 5145.

**4.2 Protective midsoles.** The method of test shall be in accordance with clause 5 of BS 953 : 1973. The average nail penetration load shall be not less than 1200 N.

## 5. Marking

Lined rubber boots with protective midsoles shall be clearly marked with the following particulars.

- The number of this British Standard (i.e. BS 5462).
- The name, trademark or other means of identification of the manufacturer or supplier.
- The size of the boots.
- The letters 'PR'.

NOTE. PR indicates 'penetration resistant'.

## Standards publications referred to

|         |  |
|---------|--|
| BS 953  | Methods of test for safety and protective footwear |
| BS 1870 | Safety footwear                                    |
|         | Part 2 Rubber safety boots                         |
| BS 5145 | Lined industrial rubber boots                      |



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### Revision of British Standards

British Standards are revised, when necessary, by the issue either of amendment slips or of revised editions. It is important that users of British Standards should ascertain that they are in possession of the latest amendments or editions.

The following BSI references relate to the work on this standard:

Committee reference PSS/1 PSS/1/3

Draft for comment 76/62004 DC

## Cooperating organizations

The Personal Safety Equipment Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations.

- \*British Footwear Manufacturers' Federation
- \*British Rubber Manufacturers' Association Ltd.
- British Safety Council
- \*British Steel Industry
- Cement Makers' Federation
- Chemical Industries Association
- Consumer Association
- Council of Ironfoundry Associations
- Department of Industry — National Engineering Laboratory
- \*Electricity Supply Industry in England and Wales
- Engineering Employers' Federation
- \*Engineering Equipment Users' Association
- Federation of Civil Engineering Contractors
- Glass Manufacturers' Federation
- \*Health and Safety Executive
- \*Industrial Safety (Protective Equipment) Manufacturers' Association
- Institute of British Foundrymen
- Institution of Civil Engineers
- Institution of Industrial Safety Officers

- Institution of Production Engineers
- Iron and Steel Trades Confederation
- Medical Research Council
- \*Ministry of Agriculture, Fisheries and Food
- \*National Coal Board
- National Joint Council for the Building Industry (Operatives Society)
- National Radiological Protection Board
- Royal Society for the Prevention of Accidents
- \*Shoe and Allied Trades Research Association
- \*Trades Union Congress

The Government departments and scientific and industrial organizations marked with an asterisk in the above list, together with the following, were directly represented on the Committee entrusted with the preparation of this British Standard:

- British Leather Federation
- Confederation of Shipbuilding and Engineering Unions
- Ministry of Defence
- National Union of Mineworkers
- Transport and General Workers' Union

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