



BS 1881 : Part 205 : 1986

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British Standard

Testing concrete

Part 205. Recommendations for
radiography of concrete

Essais du béton

Partie 205. Recommandations relatives à la radiographie du béton

Prüfverfahren für Beton

Teil 205. Empfehlungen zur Untersuchung von Beton mittels Röntgenstrahlen

British Standards Institution

Foreword

This Part of BS 1881 has been prepared under the direction of the Cement, Gypsum, Aggregates and Quarry Products Standards Committee. It supersedes BS 4408 : Part 3 : 1970, which is withdrawn. All aspects of testing concrete are being included as Parts of BS 1881, from sampling fresh concrete to assessing concrete in structures. BS 1881 : Part 201 gives general guidance on the choice of non-destructive test methods and should be consulted for advice on methods which can be used to complement radiographic examination.

The use of gamma rays and high energy X-rays for the location and identification of steel and voids in structural concrete makes it desirable to give guidance on the procedures to be used. It is hoped that a more unified practice will result amongst experienced radiographers working in this field. The recommendations are based upon current good practice and are designed to provide methods applicable to the investigation of concrete where radiography is suitable.

It is emphasized that the radiography of concrete falls within the scope of the Factories Acts and is controlled by the Ionising Radiations Regulations 1985. Detailed guidance on the application of these regulations and on general safety procedures is given in the 'Approved Code of Practice. The protection of persons against ionising radiation arising from any work activity' published under the authority of the Health and Safety Commission in 1985.

The recommendations do not lay down standards of radiographic image quality, which need to be agreed between the parties for each investigation. The examples of imperfections given in appendix B are to enable interpretation of radiographs to be understood and are not intended as criteria of severity of imperfections.

Where applicable, these recommendations follow those given in BS 2600 and BS 2910.

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