

**SINGAPORE STANDARD**

# **Testing concrete**

– Part B4 : Recommendations on the use of  
electromagnetic covermeters

Confirmed 2013

Published by

**Enterprise**  
**Singapore**

**SS 78 : Part B4 : 1992 (2018)**  
(ICS 91.100.30)

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ISBN 9971-67-424-6

**SS 78 : Part B4 : 1992**

This Singapore Standard having been approved by the Building Materials Product Standards Committee was endorsed by the Standards Council on 10 February 1992.

First published, 1992

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Acknowledgement is made to A/Prof Tam Chat Tim of the National University of Singapore who undertook the revision study of SS 78 Parts 1 to 6 : 1972.

SINGAPORE STANDARD

TESTING CONCRETE

PART B4 : RECOMMENDATIONS ON THE USE OF  
ELECTROMAGNETIC COVERMETERS

FOREWORD

This Part of SS 78 B series standards has been prepared under the direction of the Building Materials Product Standards Committee. All aspects of testing concrete are being included as parts of SS 78 A and B series standards from sampling fresh concrete to assessing concrete in structures. Except for changes, where applicable, in test environment, this Standard is based on BS 1881 : Part 204 : 1988 and reproduced by permission of BSI, 2 Park Street, London, W1A 2BS, England. SS 78 : Part B1 gives general guidance on the choice of non-destructive test methods and should be consulted for advice on methods which complement the measurement of cover to reinforcement or are useful as alternatives.

Electromagnetic covermeters have now been in use long enough for experience to have accumulated of applications for a variety of types of structure and under different conditions. Development of other forms of covermeter is in progress but no significant field experience is yet available.

A range of suitable devices is commercially available. Since the capabilities of these vary, the choice of instrument may be governed by the particular test conditions and information required.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

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**1. SCOPE**

This Part of SS 78 B series standards gives recommendations on and describes the principles of operation of electromagnetic devices that may be used for estimating the position, depth and size of reinforcement buried in concrete. It also describes their methods of use and applications, the accuracy to the expected and the factors which may influence the results.