

Australian Standard[®]

**IDENTIFICATION CARDS—
RECORDING TECHNIQUE**

Part 1—EMBOSSING

This Australian Standard was prepared by Committee IS/1, Information Processing Systems. It was approved on behalf of the Council of the Standards Association of Australia on 17 December 1987 and published on 5 February 1988.

The following interests are represented on Committee IS/1:

Australian Association of Permanent Building Societies
Australian Bankers' Association
Australian Bureau of Statistics
Australian Computer Equipment Manufacturers Association
Australian Computing Services Association
Australian Computer Society
Australian Computer Users Association
Australian Information Industry Association
CSIRO
CSIRONET
Department of Defence
Department of Industry, Technology and Commerce
Life Insurance Federation of Australia
Public Service Board, N.S.W.
Telecom Australia
Universities and Colleges

Review of Australian Standards. *To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.*

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

AS 3522.1—1988

Australian Standard[®]

**IDENTIFICATION CARDS—
RECORDING TECHNIQUE**

Part 1—EMBOSSING

First published as part of AS 2623.1—1983.
Revised and redesignated AS 3522.1—1988.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 4843 6

PREFACE

This Standard was prepared by the Association's Committee on Information Processing Systems. It has been reproduced from International Standard ISO 7811/1 —1985 drawn up by ISO/TC 97, Information Processing Systems.

An Additional recommendation which is not a part of the requirements of this Standard but which has been added for the guidance of users is set out in Annex D. This additional recommendation does not appear in the International Standard ISO 7811/1 —1985.

This Standard (AS 3522.1), together with all the other parts of the AS 3522² series and, in addition, AS 3521¹, AS 3523³, AS 3524⁴ and AS 3525⁵, supersedes the following Standards:

AS 2623.1, Credit Cards — Part 1 — 1983: Specifications, Numbering System and Registration Procedure.

AS 2623.2, Credit Cards — Part 2 — 1983: Magnetic Stripe Encoding for Tracks 1, 2 and 3.

AS 2623.3, Credit Cards — Part 3 — 1983: Magnetic Stripe Data Content for Track 3.

Numeric values in the SI system in this Standard may have been rounded during conversion from imperial measurements, and are therefore consistent with, but not exactly equal to, the values in the original design which were given using the imperial system. In use, the two should be neither intermixed nor reconverted. However, following the practice in the International Standard, imperial values are given parentheses.

For the purpose of this Australian Standard, the text of the International Standard used herein should be modified as follows:

- (a) *Terminology*: The words 'Australian Standard' should replace the words 'International Standard' wherever they appear.
- (b) *Decimal comma*: The decimal point should replace the decimal comma wherever it appears.
- (c) *Cross-references*: The references to International Standards should be replaced by references to Australian Standards as follows:

<i>Reference to International Standard</i>	<i>Appropriate Australian Standard</i>
ISO 1073, Alphanumeric character sets for optical recognition Part 2: Character set OCR-B— Shapes and dimensions of the printed image.	AS, 1436 Alphanumeric character set OCR-B for optical recognition
ISO 1831, Printing specifications for optical character recognition.	AS 2570, Printing specifications for optical character recognition.
ISO 7810, Identification cards— Physical characteristics	AS 3521, Identification cards— Physical characteristics
ISO 7811/3, Identification cards— Recording technique Part 3: Location of embossed characters on ID-1 cards	AS 3522.3, Identification cards— Recording technique Part 3: Location of embossed characters on ID-1 cards

¹AS 3521, Identification Cards — Physical Characteristics

²AS 3522, Identification Cards—Recording Technique

³AS 3523, Identification Cards—Numbering System and Registration Procedure for Issuer Identifiers

⁴AS 3524, Identification Cards—Financial Transaction Cards

⁵AS 3525, Bank Cards — Magnetic Stripe Data Content for Track 3

© Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

Identification cards—Recording technique— Part 1: Embossing

0 Introduction

This International Standard is one of a series of standards describing the parameters for identification cards as defined in clause 3 below and the use of such cards for international interchange.

1 Scope and field of application

This part of ISO 7811 specifies requirements for embossed characters on identification cards. The embossed characters are intended for transfer of data either by use of imprinters or by visual or machine reading.

2 References

ISO 1073, *Alphanumeric character sets for optical recognition*—

Part 1: Character set OCR-A—Shapes and dimensions of the printed image.

Part 2: Character set OCR-B—Shapes and dimensions of the printed image.

ISO 1831, *Printing specifications for optical character recognition.*

ISO 7810, *Identification cards—Physical characteristics.*

ISO 7811/3, *Identification cards—Recording technique—Part 3: Location of embossed characters on ID-1 cards.*

3 Definitions

For the purpose of this part of ISO 7811 the definition of “identification card” given in ISO 7810 and the following definition apply.

embossing: To raise characters in relief from the front surface of a card.

4 Visually and machine readable characters

4.1 Character set and type font

The numeric characters of one of the following type fonts shall be used for embossed characters intended for visual and/or machine reading, either directly from the card or from card imprints (see annex A):

- ISO 1073/1, OCR-A, Sizes I and IV;
- ISO 1073/2, OCR-B, Sizes I and IV;
- Type font 7B as described in annexes B and C.

NOTE— To ensure system compatibility in the choice of font, the attention of intending users is drawn to the necessity of agreement with their potential interchanging partners.

Print specifications are given in ISO 1831.

4.2. Character spacing

The character spacing shall be as follows:

- a) nominal spacing : 3,63 mm (0.143 in)
- b) minimum spacing between two consecutive characters : 3,48 mm (0.137 in)

4.3 Character height

Maximum height at the printing surface of the embossed characters, encompassing centreline skew and character misalignment shall be

4,32 mm (0.170 in)

4.4 Relief height of embossed characters

Relief height of imprinting character surfaces above the card surface shall be

$0,48^{0}_{-0,05}$ mm ($0.019^{0}_{-0.002}$ in)