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BS ISO/IEC 7811-1:2014



BSI Standards Publication

Identification cards — Recording technique

Part 1: Embossing

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This British Standard is the UK implementation of ISO/IEC 7811-1:2014. It supersedes BS ISO/IEC 7811-1:2002 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee IST/17, Cards and personal identification.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Identification cards — Recording technique —

Part 1: Embossing

*Cartes d'identification — Technique d'enregistrement —
Partie 1: Estampage*



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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is Joint Technical Committee ISO/IEC JTC 1, *Information technology, SC 17, Cards and personal identification*.

This fourth edition cancels and replaces the third edition (ISO/IEC 7811-1:2002), which has been technically revised. Major changes from the first edition are as follows:

- [Annex D](#) added to define the minimum spacing from embossing and IC components.
- Title of [Clause 6](#) was changed to avoid confusion. Formerly, the title was "Visually and machine readable characters" which could be interpreted to include characters in the following clause. Reference in [Table 1](#) was also changed.

ISO/IEC 7811 consists of the following parts, under the general title *Identification cards — Recording technique*:

- *Part 1: Embossing*
- *Part 2: Magnetic stripe — Low coercivity*
- *Part 6: Magnetic stripe — High coercivity*
- *Part 7: Magnetic stripe — High coercivity, high density*
- *Part 8: Magnetic stripe — Coercivity of 51,7 kA/m (650 Oe)*
- *Part 9: Tactile identifier mark*

Notes in this part of ISO/IEC 7811 are only used for giving additional information intended to assist in the understanding or use of the standard and do not contain provisions or requirements to which it is necessary to conform in order to be able to claim compliance to this part of ISO/IEC 7811.

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Identification cards — Recording technique —

Part 1: Embossing

1 Scope

This part of ISO/IEC 7811 is one of a series of International Standards describing the parameters for identification cards as defined in the definitions clause and the use of such cards for international interchange.

This part of ISO/IEC 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. It takes into consideration both human and machine aspects and states minimum requirements.

It is the purpose of this International Standards to provide criteria to which cards shall perform. No consideration is given within these International Standards to the amount of use, if any, experienced by the card prior to test. Failure to conform to specified criteria should be negotiated between the involved parties.

ISO/IEC 10373-1 specifies the test procedures used to check cards against the parameters specified in this part of ISO/IEC 7811.

NOTE 1 Numeric values in the SI and/or Imperial measurement system in this part of ISO/IEC 7811 might have been rounded off and therefore are consistent with, but not exactly equal to, each other. Either system can be used, but the two is not intended to be intermixed or reconverted. The original design was made using the Imperial measurement system

NOTE 2 TIM (Tactile Identifier Mark) defined by ISO/IEC 7811-9 can be located in the name and address area of this part of ISO/IEC 7811. The layout of embossed characters in this area is not intended to interfere with TIM.

2 Conformance

A prerequisite for conformance with this part of ISO/IEC 7811 is conformance with ISO/IEC 7810 for the ID-1 size card. An identification card is in conformance with this part of ISO/IEC 7811 if it meets all mandatory requirements specified herein. Default values apply if no others are specified.

3 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1831, *Printing specifications for optical character recognition*

ISO/IEC 1073-1, *Alphanumeric character sets for optical recognition – Part 1: Character set OCR-A–Shapes and dimensions of the printed image*

ISO/IEC 1073-2, *Alphanumeric character sets for optical recognition– Part 2: Character set OCR-B–Shapes and dimensions of the printed image*

ISO/IEC 7810, *Identification cards — Physical characteristics*