
INTERNATIONAL STANDARD



1682

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Information processing — 80 Columns punched paper cards — Dimensions and location of rectangular punched holes

First edition — 1973-12-01

UDC 681.327.45

Ref. No. ISO 1682-1973 (E)

Descriptors : data processing, data storage devices, punched cards, paper products, hole size, positioning.



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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

As part of this process, Technical Committee ISO/TC 97, *Computers and information processing*, has reviewed ISO Recommendation R 1682-1971 and found it technically suitable for transformation. International Standard ISO 1682 therefore replaces ISO Recommendation R 1682-1971, which was approved by the Member Bodies of the following countries :

Australia	Greece	Romania
Belgium	Israel	Spain
Brazil	Italy	Sweden
Canada	Japan	Switzerland
Czechoslovakia	New Zealand	Thailand
Egypt, Arab Rep. of	Peru	Turkey
France	Poland	United Kingdom
Germany	Portugal	U.S.A.

No Member Body expressed disapproval of the Recommendation.

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Printed in Switzerland

Information processing — 80 Columns punched paper cards — Dimensions and location of rectangular punched holes

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions and location of rectangular punched holes in 80 columns punched paper cards for information interchange.

NOTE — The properties of unpunched paper cards are specified in ISO 1681, *Information processing — Unpunched paper cards — Specification*.

2 DIMENSIONS AND POSITION OF HOLES (see figure)

2.1 Principle

A theoretical grid should be constructed as follows :

2.1.1 Reference line X is the line lying along the top edge of the card; that is to say, the outer of the two closest parallel straight lines wholly containing the contour of the top edge of the card.

For the purpose of locating a reference point on the edge of a card, a point on the edge of a card shall be the centre of a line 10 mm (0.375 in) in length on a flat, contacting, metal surface at least 10 mm (0.375 in) long which is being pressed against the edge of the card with a force of approximately 50 mN per millimetre of its length in contact with the card.¹⁾

2.1.2 There shall be twelve horizontal grid lines spaced 6,350 mm (0.250 in) apart; the topmost grid line shall be 6,350 mm (0.250 in) from the reference line X.

2.1.3 Reference line Y is at right angles to the reference line X, intersecting the reference point located on the right-hand edge of the card at a distance of 41,275 mm (1.625 in) from the reference line X.

2.1.4 There shall be 80 vertical grid lines spaced 2,209.8 mm (0.087 in) apart; the extreme right-hand grid line (column 80 of the card) shall be 6,375 mm (0.251 in) from the reference line Y.

2.2 Shape of holes

The punched holes should be nominally rectangular.

2.3 Dimensions of holes

All edges of the hole shall fall between two concentric, similarly aligned rectangles whose edges are parallel to the reference lines X and Y. The dimensions of the rectangles are as follows :

- outer :
height 3,200 mm (0.126 in)
width 1,422 mm (0.056 in)
- inner :
height 3,150 mm (0.124 in)
width 1,372 mm (0.054 in)

1) In common practice, this value is equivalent to 5 gf/mm.