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Machine Readable Travel Documents

Eighth Edition, 2021

Part 5: Specifications for TD1 Size

Machine Readable Official Travel Documents (MROTDs)



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AMENDMENTS

Amendments are announced in the supplements to the *Products and Services Catalogue*; the Catalogue and its supplements are available on the ICAO website at www.icao.int. The space below is provided to keep a record of such amendments.

RECORD OF AMENDMENTS AND CORRIGENDA

AMENDMENTS		
No.	Date	Entered by

CORRIGENDA		
No.	Date	Entered by

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1. SCOPE

Doc 9303, Part 5 defines specifications that are specific to TD1 Size Machine Readable Official Travel documents (MROTDs) and shall be read in conjunction with:

- Part 1 — *Introduction*;
- Part 2 — *Specifications for the Security of the Design, Manufacture and Issuance of MRTDs*;
- Part 3 — *Specifications Common to all MRTDs*.

Together these specifications provide for global data interchange of MRTDs both by visual (eye readable) and machine readable (optical character recognition) means.

Additional specifications providing for global data interchange of electronic data in eMRPs and eMROTDs may be found in Doc 9303, Parts 9 through 12.

2. DIMENSIONS OF THE TD1 SIZE MROTD

2.1 Nominal Dimensions

The nominal dimensions shall be those specified in ISO/IEC 7810: 2019 for the ID-1 type card:

85.60 mm (3.370 in) wide by 53.98 mm (2.125 in) high

2.2 Edge Tolerances

The edges of the document after final preparation shall be within the area circumscribed by the concentric rectangles as illustrated in Figure 1.

Inner rectangle: 53.25 mm × 84.85 mm (2.10 in × 3.34 in)

Outer rectangle: 54.75 mm × 86.35 mm (2.16 in × 3.40 in)

In no event shall the dimensions of the finished TD1 document exceed the dimensions of the outer rectangle, including any final preparation (e.g. laminate edges).

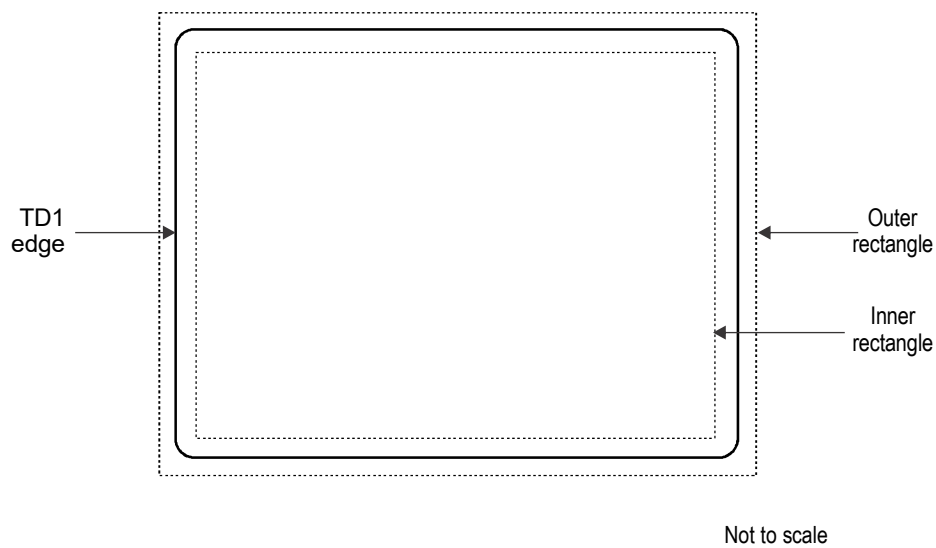


Figure 1. TD1 dimensional illustration

2.3 Margins

The dimensional specifications refer to the outer limits of the TD1. A margin of 2.0 mm (0.08 in) along each outer edge, with the exception of the header zone, must be left clear of data. See Figure 2.

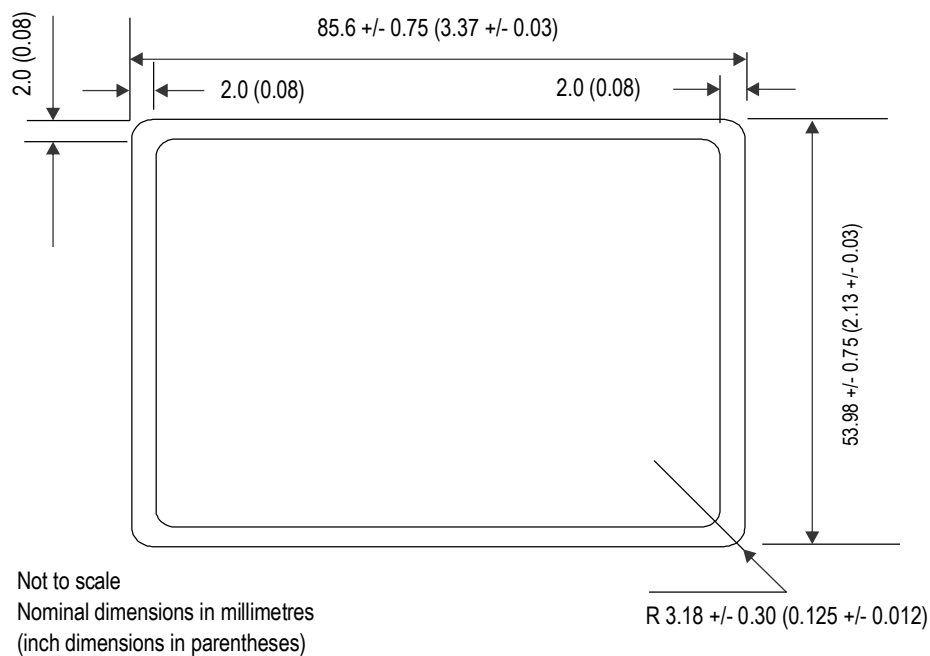


Figure 2. Edge margins and nominal dimensions of a TD1 Size MROTD

2.4 Thickness

The thickness, including any final preparation (e.g. laminate), shall be as follows:

- Minimum:

0.25 mm (0.01 in);

- Maximum:

1.25 mm (0.05 in).

The thickness of the area within the machine readable zone shall not vary by more than 0.1 mm (0.004 in).

Note.— The tolerances specified above differ from those specified in ISO/IEC 7810 for the ID-1 size card. This is for historical reasons; TD1 cards were originally produced using encapsulated pouch card methods which are incapable of achieving the permitted tolerances of ISO/IEC 7810. Some cards may still be produced using these techniques and others where the personalization process renders it impractical to achieve ISO/IEC 7810 tolerances. Wherever possible, however, dimensions and tolerances should conform to ISO/IEC 7810.

General note.— The decimal notation used in these specifications conforms to ICAO practice. This differs from the ISO practice, which is to use a decimal point (.) in imperial measurements and a comma (,) in metric measurements.

3. GENERAL LAYOUT OF THE TD1 SIZE MROTD

The MROTD follows a standardized layout to facilitate reading of data globally by both visual and machine readable means (global interoperability).

3.1 TD1 Zones

To accommodate the various requirements of States' laws and practices and to achieve the maximum standardization within those divergent requirements, the MROTD is divided into seven zones as listed below in paragraphs 3.1.1 and 3.1.2. Zones I through VI constitute the visual inspection zone (VIZ). Zone VII is the machine readable zone (MRZ).

The location, contents and dimensional specifications of zones are described below in Sections 3.2 to 3.3.

3.1.1 Front of the TD1

Zone I	Mandatory header
Zone II	Mandatory and optional personal data elements
Zone III	Mandatory and optional document data elements
Zone IV	Mandatory holder's signature or usual mark
Zone V	Mandatory identification feature