



ICAO

Doc 9303

Machine Readable Travel Documents

Eighth Edition, 2021

Part 4: Specifications for Machine Readable Passports (MRPs)
and other TD3 Size MRTDs



Approved by and published under the authority of the Secretary General

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Part 4 — *Specifications for Machine Readable Passports (MRPs) and other TD3 Size MRTDs*

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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		
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1. SCOPE

Doc 9303, Part 4 defines specifications that are specific to TD3 size Machine Readable Passports (MRPs) and other TD3 size Machine Readable Travel Documents (MRTDs). For brevity the term MRP has been used throughout this document and, except where stated, all the specifications herein shall apply equally to all other TD3 size MRTDs. This document 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 eMRTDs can be found in Doc 9303, Parts 9 through 12.

2. CONSTRUCTION AND DIMENSIONS OF THE MRP AND MRP DATA PAGE

2.1 Construction

The MRP shall take the form of a book consisting of a cover and a minimum of eight pages and shall include a data page onto which the issuing State or organization enters the personal data relating to the holder of the document and data concerning the issuance and validity of the MRP. After issuance, no additional pages shall be added to the MRP.

2.2 MRP Data Page Nominal Dimensions

The nominal dimensions shall be as specified in ISO/IEC 7810: 2019 (except thickness) for the TD3 size MRTD, i.e.:

125.00 mm (4.921 in) wide by 88.00 mm (3.465 in) high

2.3 MRP Data Page Edge Tolerances

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

Inner rectangle: 87.25 mm × 124.25 mm (3.44 in × 4.89 in)

Outer rectangle: 88.75 mm × 125.75 mm (3.49 in × 4.95 in)

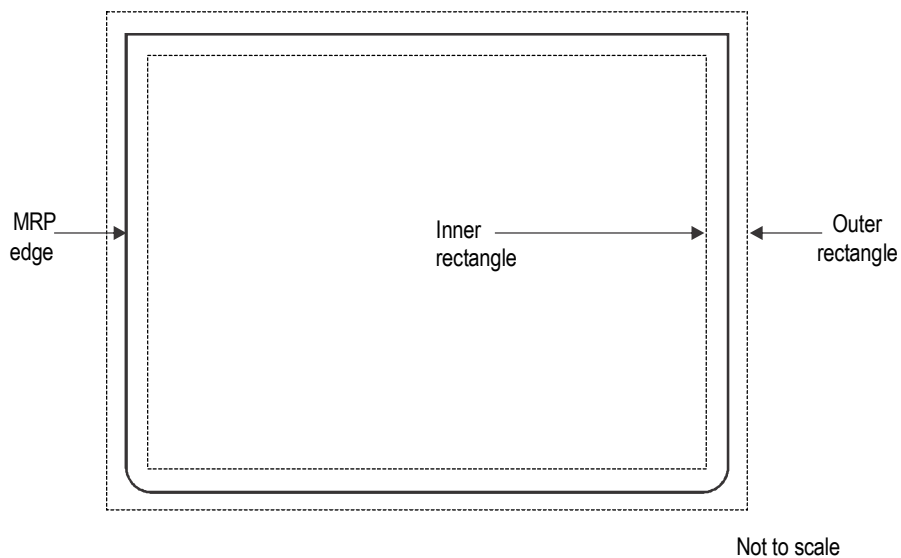


Figure 1. MRP data page dimensional illustration

2.4 MRP Data Page Margins

The dimensional specifications refer to the outer limits of the MRP data page. A margin of 2.0 mm (0.08 in) along the left and right hand edges and top edge must be left clear of data, as shown in Figure 2. The position of data in the machine readable zone is as shown in Figure 3.

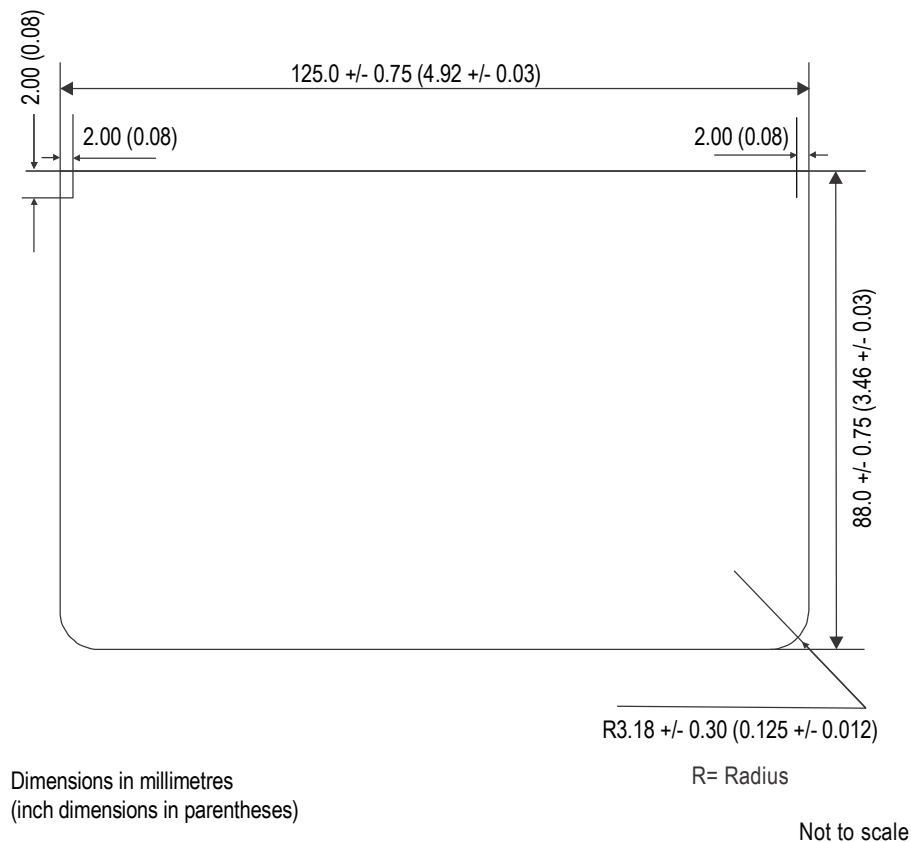


Figure 2. Edge margins of the MRP data page

2.5 MRP Data Page Thickness

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

- Minimum:

No minimum thickness is specified. However, States are advised that currently available materials are unlikely to provide an adequately robust data page if the thickness is below 0.15 mm (0.006 in);

- Maximum:

0.90 mm (0.035 in).

The thickness of the area within the machine readable zone shall not vary by more than 0.10 mm (0.004 in).

General note.— The decimal notation 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.

2.6 MRP Dimensions

The dimensional specifications defined in 2.2 to 2.3 above also apply to the MRP book. If required for binding purposes, the 88.0 mm (3.46 in) dimension may be increased.

The 88.0 mm (3.46 in) dimension associated with polycarbonate data pages (or equivalent) includes any hinge material as measured from the bottom of the data page to the stitching line.

3. GENERAL LAYOUT OF THE MRP DATA PAGE

The MRP data page follows a standardized layout to facilitate reading of data globally by visual and machine readable means.

The MRP data page should either be an inner page in close proximity to an end leaf of the MRP or form part of the cover of the MRP. Where the MRP data page is part of the cover, precautions must be taken to ensure that the endleaf/cover assembly combined with the means of personalization are together resistant to fraudulent attack, particularly by delamination of the cover structure. Where the MRP data page is not constructed as part of the cover, the recommended practice is to locate the MRP data page on page 2 or on the penultimate page of the MRP. The location of the MRP data page in any other position in the MRP will give rise to problems for document examiners in the operation of swipe readers reading the MRZ. The MRZ shall be positioned adjacent to the outside long edge of the book, parallel to the spine of the book (see Figures 3 and 4).

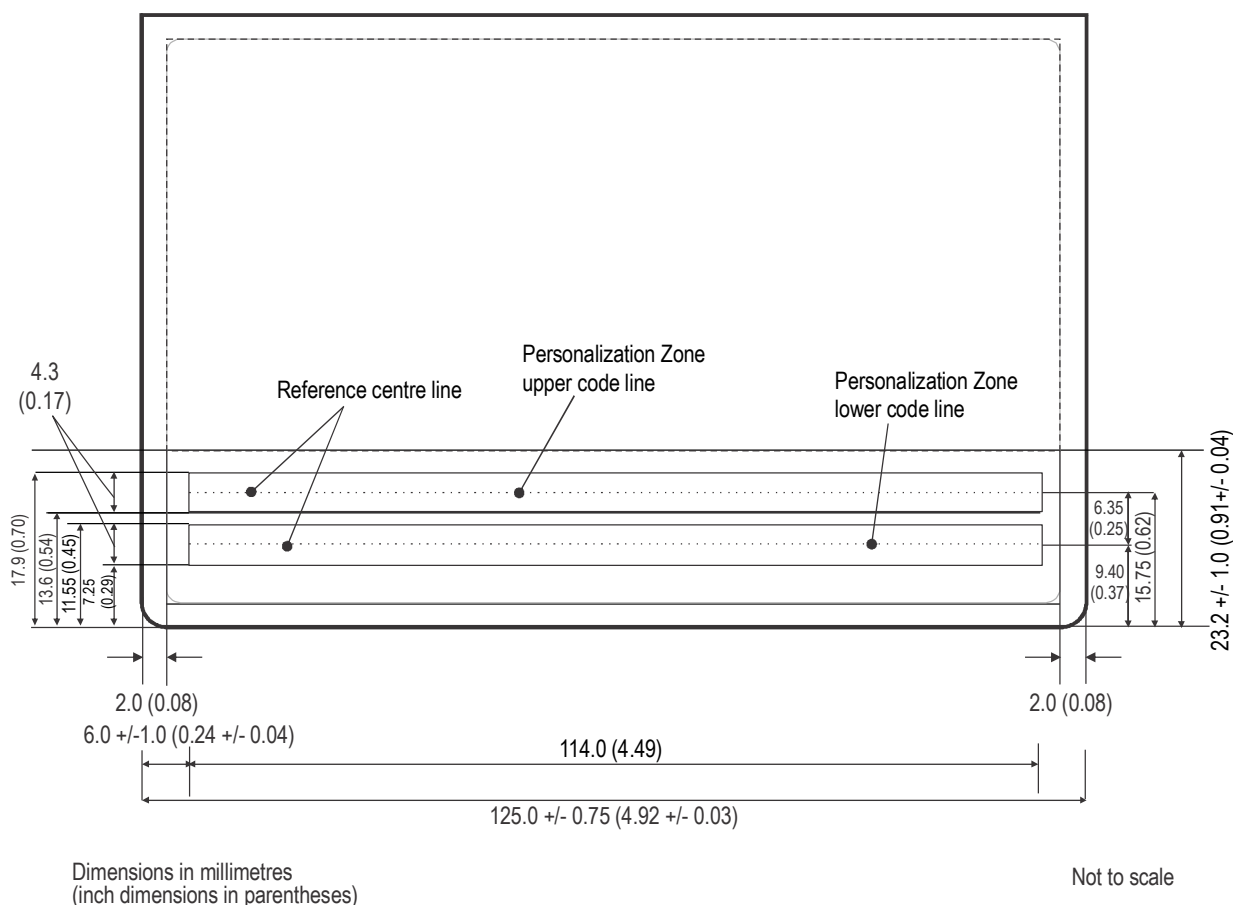


Figure 3. Schematic diagram of the Machine Readable Zone (MRZ)