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Identification cards — Proximity cards — Part 1: Physical characteristics

AMENDMENT 1

Additional PICC classes

Cartes d'identification — Cartes de proximité — Partie 1: Caractéristiques physiques

AMENDEMENT 1

Classes de PICC additionnelles

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Contents

Page

Foreword	iv
A.2 "Class 2"	1
A.2.1 Antenna Location	1
A.2.2 Electrical requirement.....	1
A.3 "Class 3"	2
A.3.1 Antenna Location	2
A.3.2 Electrical requirement.....	2
A.4 "Class 4"	3
A.4.1 Antenna Location	3
A.4.2 Electrical requirement.....	3
A.5 "Class 5"	4
A.5.1 Antenna Location	4
A.5.2 Electrical requirement.....	4
A.6 "Class 6"	5
A.6.1 Antenna Location	5
A.6.2 Electrical requirement.....	5

Foreword

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Amendment 1 to ISO/IEC 14443-1:2008 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology, Subcommittee SC 17, Cards and personal identification*.

Identification cards — Proximity cards — Part 1: Physical characteristics

AMENDMENT 1: Additional PICC classes

Page 3 of ISO/IEC 14443-1:2008, Annex A

Add following new sub clauses after A.1.2:

A.2 "Class 2"

A "Class 2" PICC shall follow the requirements in A.2.1 and A.2.2.

A.2.1 Antenna Location

The antenna of a "Class 2" PICC shall be located within a zone defined by two rectangles, as specified in Figure A.2:

- external rectangle: 81 mm x 27 mm;
 - internal rectangle: 51 mm x 13 mm, non-centered in the external rectangle, with 3 mm corners radii;
- except for the connections to the ends of the antenna coil, with a maximum area of 300 mm².

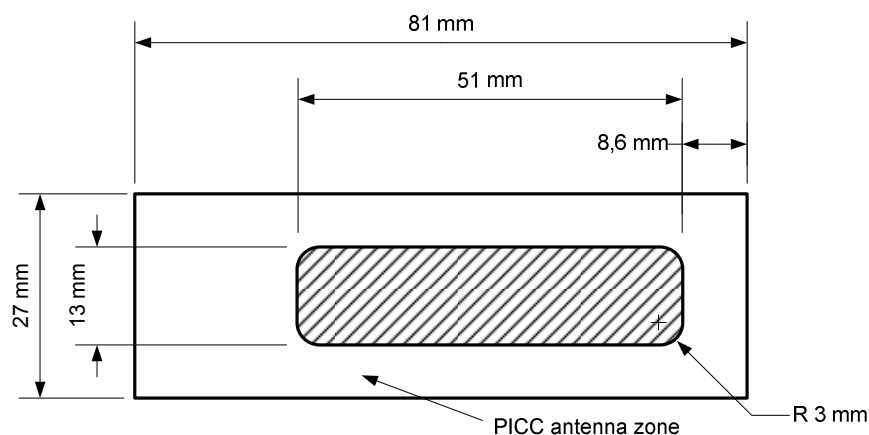


Figure A.2 – Location of the antenna of the "Class 2" PICC

A2.2 Electrical requirement

The "Class 2" PICC shall also pass the "Class 2" PICC maximum loading effect test defined in ISO/IEC 10373-6.

A.3 "Class 3"

A "Class 3" PICC shall follow the requirements in A.3.1 and A.3.2.

A.3.1 Antenna Location

The antenna of a "Class 3" PICC shall be located within a zone defined by either:

- external rectangle: 50 mm x 40 mm;
- internal rectangle: 35 mm x 24 mm, centered in the external rectangle, with 3 mm corners radii;

or

- external diameter: 50 mm;
- internal diameter: 32 mm;

as shown in Figure A.3, except for the connections to the ends of the antenna coil, with a maximum area of 300 mm².

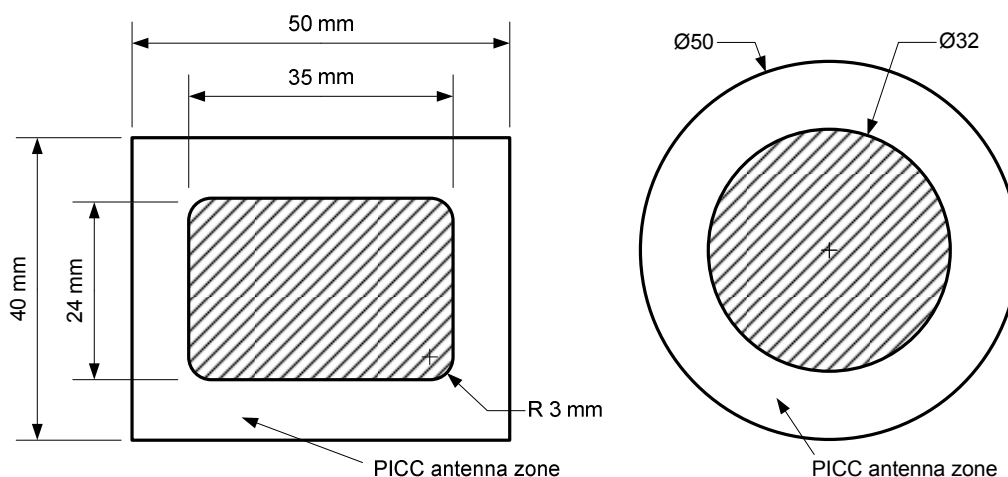


Figure A.3 – Location of the antenna of the "Class 3" PICC

A.3.2 Electrical requirement

The "Class 3" PICC shall also pass the "Class 3" PICC maximum loading effect test defined in ISO/IEC 10373-6.

A.4 "Class 4"

A "Class 4" PICC shall follow the requirements in A.4.1 and A.4.2.

A.4.1 Antenna Location

The antenna of a "Class 4" PICC shall be located within a zone defined by either:

- external rectangle: 50 mm x 27 mm;
- internal rectangle: 35 mm x 13 mm, centered in the external rectangle, with 3 mm corners radii;

or

- external diameter: 41 mm;
- internal diameter: 24 mm;

as shown in Figure A.4, except for the connections to the ends of the antenna coil, with a maximum area of 300 mm².

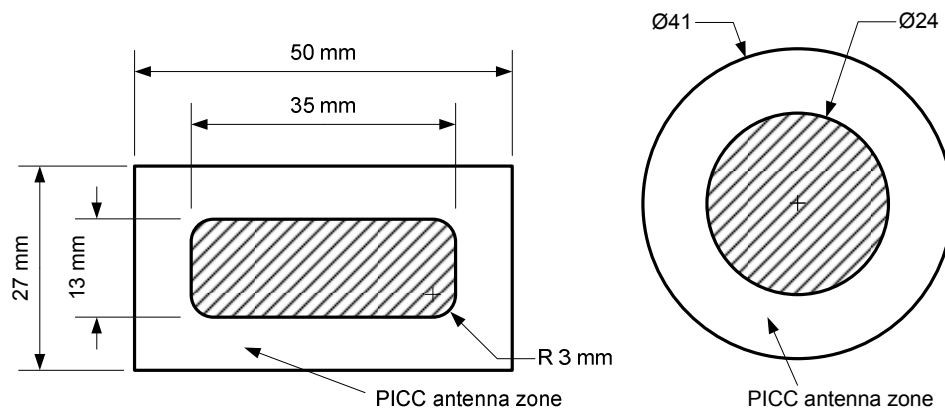


Figure A.4 – Location of the antenna of the "Class 4" PICC

A.4.2 Electrical requirement

The "Class 4" PICC shall also pass the "Class 4" PICC maximum loading effect test defined in ISO/IEC 10373-6.

A.5 "Class 5"

A "Class 5" PICC shall follow the requirements in A.5.1 and A.5.2.

A.5.1 Antenna Location

The antenna of a "Class 5" PICC shall be located within a zone defined by either:

- external rectangle: 40,5 mm x 24,5 mm;
- internal rectangle: 25 mm x 10 mm, centered in the external rectangle, with 3 mm corners radii;

or

- external diameter: 35 mm;
- internal diameter: 18 mm;

as shown in Figure A.5, except for the connections to the ends of the antenna coil, with a maximum area of 300 mm².

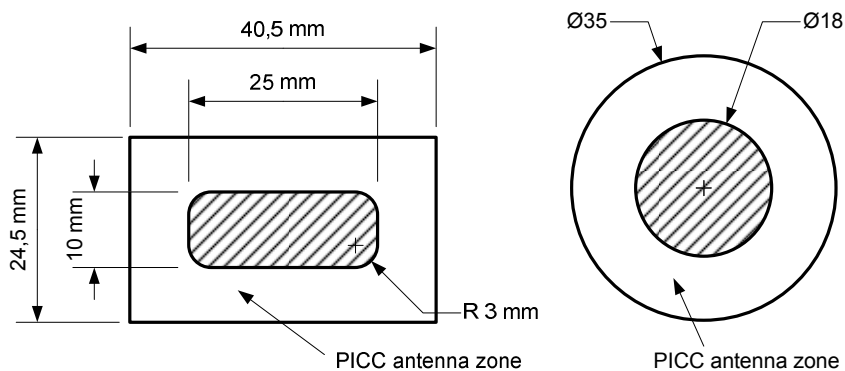


Figure A.5 – Location of the antenna of the "Class 5" PICC

A.5.2 Electrical requirement

The "Class 5" PICC shall also pass the "Class 5" PICC maximum loading effect test defined in ISO/IEC 10373-6.

A.6 "Class 6"

A "Class 6" PICC shall follow the requirements in A.6.1 and A.6.2.

A.6.1 Antenna Location

The antenna of a "Class 6" PICC shall be located within a zone defined by either a rectangle of dimensions 25 mm x 20 mm or a circle of 25 mm diameter, as shown in Figure A.6, except for the connections to the ends of the antenna coil, with a maximum area of 300 mm².

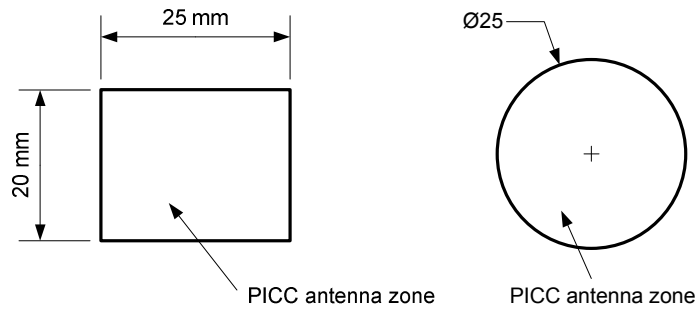


Figure A.6 – Location of the antenna of the "Class 6" PICC

A.6.2 Electrical requirement

The "Class 6" PICC shall also pass the "Class 6" PICC maximum loading effect test defined in ISO/IEC 10373-6.