


Laboratory Accreditation Programmes

Schedule to CERTIFICATE OF ACCREDITATION	
Laboratory	Card Testing International Ltd
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Telephone	04 903-4990
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URL	www.cardtest.com
Authorised Representative	Mr Steve DeDera Chief Technology Officer
Client No.	8916
Programme	Mechanical Testing Laboratory
Accreditation Number	1075
Initial Accreditation Date	28 August 2012
Conformance Standard	NZS ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories
Testing Services Summary	4.45 Commercial Items
Signatories	Mr Steve DeDera 4.45 Miss Eleanor Gould 4.45 (Selected Tests)

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4.45 Commercial Items

(a) Card Testing

The following tests on Identification Cards in accordance with ISO/IEC 10373-1: Test Methods Part 1, General characteristics

Section 5.1	Card warpage
Section 5.2	Dimension of cards
Section 5.3	Peel strength
Section 5.4	Resistance to chemicals
Section 5.5	Card dimensional stability and warpage with temperature and humidity
Section 5.6	Adhesion or blocking
Section 5.7	Bending stiffness
Section 5.8	Dynamic bending stress
Section 5.9	Dynamic torsional stress
Section 5.10	Opacity
Section 5.15	Resistance to heat
Section 5.17	Dimensions and locations of contacts for ICCs with contacts
Section 5.18	Static electricity tests for ICCs with contacts
Section 5.19	Static electricity tests for proximity and vicinity ICCs
Section 5.20	Electrical surface resistance of contacts of ICCs with contacts
Section 5.21	Surface profile of contacts of ICCs with contacts
Section 5.22	ICC – Mechanical strength: 3 wheel test for ICCs with contacts

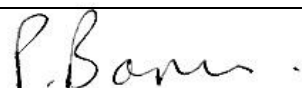
The following tests on Identification Cards in accordance with Mastercard CQM Test Methods

TM-401	Relative height of contacts
TM-402	Dimension and location of contacts
TM-403	Width and height
TM-408	Bending stiffness
TM-410	Overall card warpage
TM-411	Resistance to heat
TM-413	Adhesion or blocking
TM-414	Dynamic bending stress
TM-415	Dynamic torsional stress
TM-420	Opacity
TM-421	3 wheel test

The following tests on Identification Cards in accordance with ISO/IEC 10373-2: Test Methods Part 2, Cards with magnetic stripes

Section 5.2	Height and surface profile of the magnetic stripe
Section 5.3	Surface roughness of the magnetic stripe
Section 5.5	Amplitude measurements
Section 5.6	Flux transition spacing variation

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Section 5.9 Waveform U₁₆

The following test on Identification Cards in accordance with ISO/IEC 24789-2 Part 2, Methods of evaluation

- Section 5.2 Surface abrasion
- Section 5.3 Magnetic stripe abrasion
- Section 5.4 ICM Adhesion
- Section 5.7 Temperature and humidity aging
- Section 5.8 Temperature shock
- Section 5.9 Temperature and humidity cycling
- Section 5.10 ID-1 card flexure
- Section 5.11 Temperature and humidity aging followed by peel strength testing

The following tests on Identification Cards in accordance with ANSI INCITS 322: Card Durability Test Methods

- Section 5.4 ID-1 Card flexure
- Section 5.11 Magnetic stripe abrasion
- Section 5.22 IC Card with contacts micromodule adhesion

The following tests on Identification Cards in accordance with In-house methods based on ISO/IEC 7811-1


Measured Embossing Location

The following tests on Identification Cards in accordance with In-house methods based on ISO/IEC 7811-6

Magnetic stripe encoded track location (measured)

The following tests on Identification Cards in accordance with In-house methods based on ISO/IEC 7816-1 (4.3)

Mechanical strength of contacts

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