


Schedule to							
CERTIFICATE OF ACCREDITATION							
Laboratory	Card Testing International Ltd						
Address	PO Box 30356, Lower Hutt, 5040 Level 4, 105 High Street, Lower Hutt, 5010						
Telephone	04 903-4990						
Fax	04 903-4999						
URL	www.cardtest.com						
Authorised Representative	Mr David Reynolds Operations Manager						
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	<table border="0"> <tr> <td>Mrs Michelle Boyd</td> <td>4.45 (excl. static electricity tests)</td> </tr> <tr> <td>Mr Steve DeDera</td> <td>4.45</td> </tr> <tr> <td>Mr David Reynolds</td> <td>4.45 (excl. static electricity tests)</td> </tr> </table>	Mrs Michelle Boyd	4.45 (excl. static electricity tests)	Mr Steve DeDera	4.45	Mr David Reynolds	4.45 (excl. static electricity tests)
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Mr David Reynolds	4.45 (excl. static electricity 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

The following tests on Identification Cards in accordance with ISO/IEC 10373-1:2006/Amd 1:2012

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

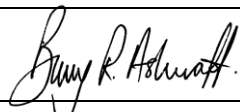
The following tests on Identification Cards in accordance with ISO/IEC 10373-2: Test Methods Part 2, Cards with magnetic stripes

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
Section 5.9	Waveform U_{i6}

The following test on Identification Cards in accordance with ISO/IEC 24789-2:2011 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

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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 322-2008: 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 Ed 3.0 en(2002)

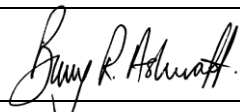
Measured Embossing Location

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

Magnetic stripe encoded track location (measured)

Uncontrolled copy printed from the internet

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