Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

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New Zealand Leather & Shoe Research Association **Client Number 251**

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Fitzherbert Science Centre, 69 Dairy Farm Road, RD 4, Palmerston North, 4474

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Authorised Representative
Mr Brendon Hayman
Quality Manager

Programme
Mechanical Testing Laboratory

Accreditation Number 578 **Initial Accreditation Date** 2 October 1995

Conformance Standard
ISO/IEC 17025:2017
General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

4.30	Safety Equipment
4.62	Textiles
4.64	Leather and Leather Products

Key Technical Personnel

Mr Aden Murtagh	4.30, 4.62, 4.64

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Accreditation Number 578

4.30 Safety Equipment

(e) Safety Footwear

The following tests on protective footwear for fire fighters to AS/NZS 4821:2014 and referenced tests

General

clause 2.2.1	Type and classification
	Design (Design A excluded)
	Height of upper

Whole Footwear

clause 3.5.1	Contact heat
clause 3.13	Slip resistance
clause 3.5.3	Flame resistance

Toe Protection

clause 3.7	Rigidity of toe at 500 N, mm

Resistance to Inimical Environments

clause 3.2	Laces melting
clause 3.4	Heat resistance test
clause 3.9	Chemical resistance
clause 3.10	Micro-organism resistance
clause 3.11	Zipper
clause 3.12	Eyelet and stud post attachment

Upper

clause 3.3.1	Thread strength
clause 3.3.2	Thread melting
clause 3.5.2	Radiant heat
clause 3.5.3	Flame resistance

Outsole

clause 3.8.1	Cleat design
clause 3.8.2	Cleat height
clause 3.8.3	Breast heel

The following tests on protective footwear for firefighters to BS EN15090:2012 Footwear for Firefighters and AS/NZS 4821:2014 Protective footwear for firefighters – Requirements and test methods (EN 15090:2012, mod)

5	Sampling and conditioning
6.3.1	Insulation against heat

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Accreditation Number 578

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6.3.2	Radiant heat
6.3.3	Flame resistance
6.4	Rigidity of the toepuff
6.5	Resistance to chemicals
6.6.3	Antistatic footwear
6.6.4	High electrical resistance outsoles
6.7	Outsole
6.8	Zipper

The following to ASTM F2412:2011 and ASTM F2412:2018 Standard test method for foot protection

clause 5	Impact Resistance
clause 6	Compression Resistance
clause 7	Metatarsal Impact Resistance
clause 11	Puncture Resistance

The requirements defined in ISO 11999.6 (2016) in accordance with the test methods of: EN 13832.3 (2006) or ISO 20344 (2011) or ISO 20345 (2011) or ISO 6942

6.2.1	Insulation against Heat
6.2.2	Radiant Heat
6.2.3	Flame Resistance
6.3.1	Degradation Resistance
6.3.2	Permeation Resistance
6.5	Water Resistance
6.6.2	Cleat Height
6.7.3	Zipper Attachment Strength
6.7.3	Zipper Lateral Strength

The following tests on protective footwear for fire fighters in accordance with ISO 11999.6 (2016)

Test 7.1	Insulation against Heat
Test 7.2	Radiant Heat
Test 7.3	Flame Resistance
Test 7.4.1	Zipper Attachment Strength
Test 7.4.2	Zipper Lateral Strength

The following tests on protective footwear to CAN/CSA Z195-14

Clause 5.1.1	Protective toe cap impact resistance
Clause 5.2.1	Protective sole penetration test

The following tests on protective footwear, including referenced tests, for fire fighters to ISO 20345:2004/Amd.1:2007, ISO 20345:2011, ISO 20345:2021 and ISO 20344:2004 and ISO 20344:2021

The laboratory's accreditation also includes the following Malaysian and Singaporean Standards for the tests for which the identical ISO Standards above are mentioned:

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Mechanical Testing Laboratory
SCOPE OF ACCREDITATION

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MS ISO 20345:2008	is identical to ISO 20345:2004	
SS513 Part 1	is identical to ISO 20345:2004	
SS513 Part 2	is identical to ISO 20344:2004	
General		
clause 5.2.2	Height of upper, mm	ISO 20344:2004 clause 6.2.2
clause 5.2.3	Seat region	
Whole Footwear		
clause 5.3.1.1	Construction	
clause 5.3.1.2	Upper/outsole bond strength	ISO 20344:2004 clause 5.2 ISO 20344:2021 clause 5.2
clause 5.3.4	Specific ergonomic features	ISO 20344:2004 clause 5.1 ISO 20344:2021 clause 5.1
clause 5.3.5	Slip resistance (in accordance with ISO 13287:2019)	ISO 20344:2011 clause 5.11 ISO 20344:2021 clause 5.14
clause 6.2.2	Electrical properties	ISO 20344:2004 clause 5.10 ISO 20344:2021 clause 5.10
clause 6.2.4	Energy absorption of seat region	ISO 20344:2004 clause 5.14 ISO 20344:2021 clause 5.17
clause 6.2.6	Metatarsal protection	ISO 20344:2004 clause 5.16 ISO 20344:2021 clause 5.20
clause 6.2.1	Penetration resistance	ISO 20344:2004 clause 5.8.2 ISO 20344:2021 clause 5.8.2, including dimensional conformity
clause 5.3.2.1	General	
clause 5.3.2.2	Toe cap length, mm	ISO 20344:2004 clause 5.3 ISO 20344:2021 clause 5.3
clause 5.3.2.3	Impact resistance	ISO 20344:2004 clause 5.4 ISO 20344:2021 clause 5.4
clause 5.3.2.4	Compression resistance	ISO 20344:2004 clause 5.5 ISO 20344:2021 clause 5.5
clause 5.3.2.5	Behaviour of toecaps (thermal and chemical)	ISO 20344:2004 clause 5.6.1 ISO 20344:2021 clause 5.6
clause 5.6.2	Behaviour of toecaps (thermal and chemical)	EN 12568 and ISO 22568
Resistance to Inimical Environments		
clause 6.2.3.1	Heat insulation of sole complex	ISO 20344:2004 clause 5.12 ISO 20344:2021 clause 5.15
clause 6.2.3.2	Cold insulation of sole complex	ISO 20344:2004 clause 5.13 ISO 20344:2021 clause 5.16
clause 6.2.5	Water resistance	ISO 20344:2004 clause 5.15.1 ISO 20344:2021 clause 5.15.1
clause 5.3.3	Leakproofness	ISO 20344:2004 clause 5.7

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Accreditation Number 578

		ISO 20344:2021 clause 5.7
Metatarsal Protection		
clause 6.2.6.2	Impact resistance of metatarsal protective device	ISO 20344:2004 clause 5.16 ISO 20344:2021 clause 5.20
Upper		
clause 5.4.2	Thickness	ISO 20344:2004 clause 6.1 ISO 20344:2021 clause 6.1
clause 5.4.3	Tear strength	ISO 20344:2004 clause 6.3 ISO 20344:2021 clause 6.3
clause 5.4.4	Tensile properties	ISO 20344:2004 clause 6.4 ISO 20344:2021 clause 6.4
clause 5.4.5	Flexing resistance	ISO 20344:2004 clause 6.5 ISO 20344:2021 clause 6.5
clause 5.4.6	Water vapour Class 1 only	ISO 20344:2004 clause 6.6 & 6.8 ISO 20344:2021 clause 6.6, 6.7 & 6.8
clause 5.4.8	Hydrolysis	ISO 20344:2004 clause 6.10 ISO 20344:2021 clause 6.10
clause 6.3.1	Water penetration	ISO 20344:2004 clause 6.13 ISO 20344:2021 clause 6.13
clause 6.3.2	Upper construction	
Vamp lining & Quarter lining		
clause 5.5.1	Tear strength	ISO 20344:2004 clause 6.3 ISO 20344:2021 clause 6.3
clause 5.5.2	Abrasion resistance	ISO 20344:2004 clause 6.12 ISO 20344:2021 clause 6.12
clause 5.5.3	Water vapour	ISO 20344:2004 clause 6.6 & 6.8 ISO 20344:2021 clause 6.6, 6.7 & 6.8
Tongue		
clause 5.6.1	Tear strength	ISO 20344:2004 clause 6.3 ISO 20344:2021 clause 6.3
Insole		
clause 5.7.1	Thickness	ISO 20344:2004 clause 7.1 ISO 20344:2021 clause 7.1
clause 5.7.3	Water absorption and desorption	ISO 20344:2004 clause 7.2 ISO 20344:2021 clause 7.2
clause 5.7.4	Abrasion resistance	ISO 20344:2004 clause 7.3 ISO 20344:2021 clause 7.3
Outsole		
clause 5.8.1	Thickness (outsole dimensions)	ISO 20344:2004 clause 8.1 ISO 20344:2021 clause 8.2

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clause 5.8.2	Tear strength	ISO 20344:2004 clause 8.2 ISO 20344:2021 clause 8.3
clause 5.8.3	Abrasion resistance	ISO 20344:2004 clause 8.3 ISO 20344:2021 clause 8.4
clause 5.8.4	Flexing resistance	ISO 20344:2004 clause 8.4 ISO 20344:2021 clause 8.6
clause 5.8.5	Hydrolysis	ISO 20344:2004 clause 8.5 ISO 20344:2021 clause 8.7
clause 5.8.6	Interlayer bond strength	ISO 20344:2004 clause 5.2 ISO 20344:2021 clause 5.2
clause 5.8.7	Resistance to fuel oil	ISO 20344:2004 clause 8.6 ISO 20344:2021 clause 8.8
clause 6.4.1	Cleated area	
clause 6.4.2	Thickness of cleated outsoles	ISO 20344:2004 clause 8.1 ISO 20344:2021 clause 8.2
clause 6.4.3	Cleat height	ISO 20344:2004 clause 8.1 ISO 20344:2021 clause 8.2
clause 6.4.4	Resistance to hot contact	ISO 20344:2004 clause 8.7 ISO 20344:2021 clause 8.9

The following tests on protective clothing for users of hand-held chain saws

ISO 11393-3:1999 (E)	Part 3: Test methods for footwear
BS EN 381-3:1996	Part 3: Test methods for footwear
ISO 17249:2013	Resistance to chainsaw cutting

(f) Other safety products

The following tests on Occupational protective gloves to AS/NZS 2161.3:1998 Protection against mechanical risk

clause 6.2	Blade cut resistance

The following tests on protective clothing for users of hand-held chain saws

ISO 11393-2 Part 2:	Test Methods and performance requirements for leg protectors – Clause 9.3 Testing of resistance to cutting
BS EN 381-2 Part 2:	Test Methods for leg protectors – Clause 8 Testing of resistance to cutting
AS/NZS 4453.2:1997 Part 2:	Test Methods for leg protectors – Clause 8 Testing of resistance to cutting

The following tests to the methods shown

ISO 7619.1:2004	Hardness of rubber and plastics to Shore A using a Durometer
AS/NZS 3744	Furniture – Assessment of the ignitability of upholstered furniture

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Part 1: 1998	Ignition source – Smouldering cigarette
Part 2: 1998	Ignition source – Match-flame equivalent
Part 3: 1998	Ignition sources – Nominal 160 mL/min gas flame and nominal 350mL/min gas flame
BS 5852:2006	Methods of test for assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources

4.62 Textiles

Fabrics

(a) Tension tests

ISO 13934-1	Tensile properties of fabrics – maximum force and elongation at maximum force using the strip method
ISO 13934-2	Tensile properties of fabrics – Determination of maximum force using the grab method
ISO 13935-1:2014	Seam tensile properties – Part 1: maximum force to seam rupture using the strip method
ISO 13935-2:2014	Seam tensile properties – Part 2: maximum force to seam rupture using the grab method
ISO 13936-2	Slippage resistance of yarns at a seam in woven fabrics – Fixed load method

(b) Tear tests

AS 2001.2.10	Tear resistance of woven textile fabrics by the wing-rip method

(c) Burst tests

ASTM D3787	Bursting Strength – Constant-Rate-of-Traverse (CRT) Ball Burst Test

(e) Wear tests

ISO 12947-1	Abrasion resistance of fabrics – Martindale abrasion testing apparatus
ISO 12947-2	Abrasion resistance of fabrics – Determination of specimen breakdown
ISO 12947-3	Abrasion resistance of fabrics – Determination of mass loss
ISO 12947-4	Abrasion resistance of fabrics – Assessment of appearance change
ISO 12945-2	Fabric propensity to surface fuzzing and to pilling – Modified Martindale method

(f) Other tests

ISO 105-B02:1994(E) Method 1 to 4	Colour fastness to artificial light: Xenon arc fading lamp test
ISO 105-C06:2010	Colour fastness to domestic and commercial laundering
ISO 105-D01:2010	Colour fastness to drycleaning using perchlorethelyne solvent
ISO 105-E04	Colour fastness to perspiration

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Accreditation Number 578

ISO 105-E01	Colour fastness to water
ISO 105-X12	Colour fastness to rubbing
ISO 3801	Mass per unit length and mass per unit area
ISO 3759:2011	Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change
ISO 5077:2007	Determination of dimensional change in washing and drying
ISO 6330:2012	Domestic washing and drying procedures for textile testing
ISO 7211/1	Construction – Weave diagram only
ISO 12945-1:2000	Determination of fabric propensity to surface fuzzing and to pilling – Part 1: Pilling Box method

4.64 Leather and Leather Products

The following tests to ISO methods listed

ISO 2418	Sampling	(also referred to as IUP2/SLP2)
ISO 2419	Conditioning	(also referred to as IUP3/SLP3)
ISO 2589	Thickness	(also referred to as IUP4/SLP4)
ISO 3376	Tensile strength and percent elongation	(also referred to as IUP6/SLP6)
ISO 3377	Measurement of tearing load	(also referred to as IUP8/SLP7)
ISO 3379	Ball burst test	
ISO 5402	Measurement of the flexing endurance of light leathers and their surface finishes	(also referred to as IUP20/SLP14)
ISO 5403:2002	Dynamic waterproofness for upper leather	(also referred to as IUP10/SLP22)
ISO 11640	Colour fastness to cycles of to – and fro rubbing	(also referred to as IUF450/SLF470)
ISO 11642:2012	Colour fastness to water	(also referred to as IULTCS/IUF 421)
ISO 11644:1993(E) Appendix A	Finish adhesion	(also referred to as SLF11)

The following tests to Other methods specified

AATCC method 8:1989	Colour fastness to crocking
ASTM D 1813:00	Thickness of leather
ASTM D 1516:00	Width of leather
ASTM D 1913:00	Wetting of garment leather (spray-test)
ASTM D 2209:00	Tensile strength
ASTM D 2208:00	Breaking strength
ASTM D 2211:00	Elongation of leather
ASTM D 2212:00 (2005)	Slit tear resistance
ASTM D 2813:86	Sampling leather
ASTM D 4704:00	Tear strength – tongue tear
ASTM D 4705:00	Stitch tear – double hole
ASTM D 4786:00	Stitch tear – single hole
ASTM D5053:00	Colourfast of crocking of leather

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SATRA PM36:1999	Break/Pipiness

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