

**CERTIFICATE OF ACCREDITATION**



**Applied Research Services Ltd**

**Client Number 1690**

PO Box 687, Nelson, 7040  
75 Beatty Street, Annesbrook, Nelson, 7011

**Telephone 03 547-7347**

**www.appliedresearch.co.nz**

**Authorised Representative**

Dr Wayne Webley  
Managing Director

**Programme**

Applied Physics Testing Laboratory

**Accreditation Number 395**

**Initial Accreditation Date 20 December 1989**

**Conformance Standard**

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

**Laboratory Services Summary**

6.45	Performance Testing of Appliances and Components
6.99	Specified Physical Tests

**Key Technical Personnel**

Mr George Looman	6.45
Dr Wayne Webley	6.45, 6.99

Operations Manager Authorisation:		Issue 34	Date:30/10/25	Page 1 of 3
--------------------------------------	--	----------	---------------	-------------



Applied Research Services Ltd  
 Applied Physics Testing Laboratory  
**SCOPE OF ACCREDITATION**

Accreditation Number 395

**6.45 Performance Testing of Appliances and Components**

(g) Oil fired appliances

Tests on domestic oil fired appliances in accordance with AS 1690:1975 Sections 2.2, 2.3, 2.4 and 3 (using a rig as specified in AS2918 Appendix B) and the Dangerous Goods Regulations (Class 3-Flammable liquids):1985

(h) Solid fuel fired appliances

Tests on domestic solid fuel burning appliances in accordance with:

AS/NZS 2918:2018 & 2001	Domestic solid fuel burning appliances—Installation (appendices below only)
Appendix B Appendix C	Thermal Testing of Installation Clearances Determination of the Material Service Temperature for Shielding and Insulating Materials
Appendix D Appendix E Appendix F	Thermal Testing of a Floor Protector Thermal Testing of Fireplace Insert Installations Thermal Testing of Flue Systems and Flue-System Clearances
AS/NZS 3869:1999	Domestic solid fuel burning appliances – design and construction
AS/NZS 4012:2014 &1999	Method for determination of power output and efficiency [together with customer requested variations to fuel load and type, operation (including burn phasing) and installation. These variations may include the fuel variations and operational variations specified in Environment Canterbury method CM-1.]
AS/NZS 4013:2014 &1999	Method for determination of flue gas emission [together with customer requested variations to fuel load and type, operation (including burn phasing) and installation. These variations may include the fuel variations and operational variations specified in Environment Canterbury method CM-1.]
AS/NZS 4014:1999	Method for determination of test fuels – hardwood, softwood, and sub-bituminous coal
AS/NZS 4886:2007	Pellet heaters – Method for determination of flue gas emission
AS/NZS 5078:2007	Pellet heaters – Method for determination of power output and efficiency
SFH 011	In-house method for the determination of power output and efficiency at steady rate
NZHHA MOTM	Maximum output test method for the New Zealand Home Heating Association

Operations Manager Authorisation:		Issue 34	Date:30/10/25	Page 2 of 3
--------------------------------------	--	----------	---------------	-------------



Applied Research Services Ltd  
 Applied Physics Testing Laboratory  
**SCOPE OF ACCREDITATION**

Accreditation Number 395

(k) Other specified appliances and components

Tests and measurements on consumer products. Tests for compliance to specific standards cannot be carried out unless specified separately in this scope.

Type of Measurement	Range	Least uncertainty of measurement
Length	0.01 mm to 5 m	0.01 mm
Mass	50 µg to 200 kg	50 µg
Pressure	1 Pa to 1000 kPa	1 Pa
Temperature	-20 °C to 1050 °C	0.1 °C
Time	1 s and greater	1 s
Voltage	0.2 mV to 1000 V	0.2 mV
Current	0.01 mA to 10 A	0.5 mA
Resistance	0.1 Ω to 50 MΩ	0.5 Ω
Frequency	0.01 Hz to 100 kHz	0.05 Hz

**6.99 Specified Physical Tests**

(d) Moisture

- AS 4014.1 Appendix A Method for Determination of Moisture Content of Fuel Wood (hardwood)
- AS 4014.2 Appendix A Method for Determination of Moisture Content of Fuel Wood (softwood)

Operations Manager Authorisation:		Issue 34	Date:30/10/25	Page 3 of 3
--------------------------------------	--	----------	---------------	-------------