



# SCOPE OF ACCREDITATION

IAS Accreditation Number	TL-222
Company Name	Applied Research Laboratories of South Florida, LLC
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Effective Date of Scope	January 8, 2019
Accreditation Standard	ISO/IEC 17025:2017

## Physical

ANSI/ASTM D1621	Standard test method for compressive properties of rigid cellular plastics
ANSI/ASTM D1622	Standard test method for apparent density of rigid cellular plastics
ANSI/ASTM D2126	Standard test method for response of rigid cellular plastics to thermal and humid aging
ANSI A14.1	American national standards for ladders - wood safety requirements
ANSI/UL1093	Halogenated agent fire extinguishers
ASTM B117	Standard practice for operating salt spray (fog) apparatus
ASTM C209	Standard test methods for cellulosic fiber insulating board
ASTM C303	Standard test method for dimensions and density of preformed block and board-type thermal insulation
ASTM C794	Standard test method for adhesion-in-peel of elastomeric joint sealants
ASTM D412	Test methods for vulcanized rubber and thermoplastic rubbers and thermoplastic elastomers tension
ASTM D413	Standard test methods for rubber property—adhesion to flexible substrate
ASTM D471	Standard test method for rubber property—effect of liquids
ASTM D573	Standard test method for rubber—deterioration in an air oven



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ASTM D897	Standard test method for tensile properties of adhesive bonds
ASTM D903	Standard test method for peel or stripping strength of adhesive bonds
ASTM D1598	Standard test method for time-to-failure of plastic pipe under constant internal pressure
ASTM D1653	Standard test methods for water vapor transmission of organic coating films
ASTM D1654	Standard test method for evaluation of painted or coated specimens subjected to corrosive environments
ASTM D2240	Standard test method for rubber property—durometer hardness
ASTM D2370	Standard test method for tensile properties of organic coatings
ASTM D2523	Standard practice for testing load-strain properties of roofing membranes
ASTM D3359	Standard test methods for measuring adhesion by tape test
ASTM E96	Standard test methods for water vapor transmission of materials
ASTM E1512	Standard test methods for testing bond performance of bonded anchors
ASTM F876	Standard specification for crosslinked polyethylene (PEX) tubing
ASTM G29	Standard practice for determining algal resistance of plastic films
ASTM G85	Standard practice for modified salt spray (fog) testing
ANSI/ASTM D256	Standard test methods for determining the Izod pendulum impact resistance of plastics
ANSI/ASTM D570	Standard test method for water absorption of plastics
ANSI/ASTM D638	Standard test method for tensile properties of plastics
ANSI/ASTM D790	Standard test methods for flexural properties of unreinforced and reinforced plastics and electrical insulating materials
TAS 114-95 Appendix E	Testing Application Standard (TAS) test procedure for corrosion resistance of fasteners, batten bars and stress distribution plates (excluding section 3)



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## Heating/Cooling

ANSI/AHAM RAC-1	Room air conditioners
ANSI/AHRI Standard 210/240	Unitary air-conditioning and air-source heat pump equipment
ANSI/AHRI Standard 340/360	Performance rating of commercial and industrial unitary air-conditioning and heat pump equipment (65,000 – 90,000 BTU/H only)
ANSI/ASHRAE Standard 37	Methods of testing for rating electrically driven unitary air-conditioning and heat pump equipment
ANSI/UL 174	Standard for household electric storage tank water heaters
ANSI/UL 207	Standard for refrigerant-containing components and accessories, nonelectrical
ANSI/UL 465	Safety central cooling air conditioners
ANSI/UL 474	Standard for dehumidifiers
ANSI/UL 484	Standard for room air conditioners (excluding supplement SA - requirements for room air conditioners employing a flammable refrigerant in the refrigerating system)
ANSI/UL 499	Standard for electric heating appliances
ANSI/UL 834	Standard for heating, water supply, and power boilers - electric
ANSI/UL 873	Standard for temperature-indicating and -regulating equipment
ANSI/UL 984	Hermetic refrigerant motor-compressors
ANSI/UL 1995	Heating and cooling equipment (excluding section 35 condensing and compressor units employing flammable refrigerants)
ANSI/UL 1996	Standard for electric duct heaters
ANSI/UL 2021	Standard for fixed and location-dedicated electric room heaters
CAN/CSA B72-M87	Fuels and appliances
<b>Mechanical</b>	
ANSI/ASME A17.1	Safety code for elevators and escalators (section 8.33)



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ANSI/ASME A112.19.17	Manufactured safety vacuum release systems (SVRS) for residential and commercial swimming pool, spa, hot tub, and wading pool suction systems
ANSI/UL 22	Standard for amusement and gaming machines
ANSI/UL 73	Standard for motor-operated appliances
ANSI/UL 325	Standard for door, drapery, gate, louver, and window operators and systems
ANSI/UL710	Standard for exhaust hoods for commercial cooking equipment
ANSI/UL749	Household dishwashers
ANSI/UL756	Standard for coin and currency changers and actuators
UL 104	Standard for elevator door locking devices and contacts
<b>Electrical</b>	
ANSI/ASME A17.5	Elevator and escalator electrical equipment
ANSI/NFPA 79	Electrical standard for industrial machinery
ANSI/UL 50	Enclosures for electrical equipment, non-environmental considerations
ANSI/UL 50E	Enclosures for electrical equipment, environmental considerations (excluding 8.4, dust test, 8.5 external icing test, 8.7 indoor corrosion protection, 8.8 outdoor corrosion protection, 8.9 additional corrosion protection for type 3x, 3rx, 3sx, 4x and 6p, 8.10 submersion test, 8.12 oil exclusion test)
ANSI/UL 65	Standard for wired cabinets
ANSI/UL 96	Standard for lightning protection components
ANSI/UL 197	Standard for commercial electric cooking appliances
ANSI/UL 231	Standard for power outlets
ANSI/UL506	Standard for specialty transformers
ANSI/UL507	Standard for electric fans
ANSI/UL508	Industrial control equipment
ANSI/UL676	Standard for underwater luminaires and submersible junction boxes



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ANSI/UL813	Standard for commercial audio equipment
ANSI/UL1008	Transfer switch equipment
ANSI/UL1029	Standard for high-intensity-discharge lamp ballasts
ANSI/UL1081	Standard for swimming pool pumps, filters, and chlorinators
ANSI/UL1238	Standard for control equipment for use with flammable liquid dispensing devices
ANSI/UL1310	Standard for class 2 power units
ANSI/UL1598	Luminaires
ANSI/UL1838	Standard for low voltage landscape lighting systems
ANSI/UL2108	Standard for low voltage lighting systems
ANSI/UL5085-1	Low voltage transformers - part 1: general requirements
ANSI/UL5085-3	Low voltage transformers - part 3: class 2 and class 3 transformers
UL 775	Standard for graphic arts equipment
IEC/UL/CSA 60335-1	Safety of Household and Similar Appliances, Part 1
IEC/UL/CSA 60335-2-40	Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers
IEC/EN/CSA/UL/ANSI/AAMI ES60601-1	Medical electrical equipment, part 1: general requirements for safety (excluding sections 5, 6 and 7 and sub clauses 43.2 and 48)
IEC/EN/CSA/UL 60950-1	Information Technology Equipment – Safety – Part 1
NEMA 250	Enclosures for Electrical Equipment (1000 Volts Maximum)



# SCOPE OF ACCREDITATION

## **ENERGY STAR PROGRAM REQUIREMENTS**

### **Household & Commercial Equipment**

Central air conditioners and air source heat pumps

Geothermal heat pumps

Light commercial HVAC

Residential heat pump water heaters (electric only)

Room air conditioners

Water coolers