



CERTIFICATE OF ACCREDITATION

This is to attest that

QAI LABORATORIES LTD.

3980 NORTH FRASER WAY
BURNABY, BRITISH COLUMBIA V5J 5K5, CANADA

Testing Laboratory TL-239

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date July 30, 2021



A handwritten signature in black ink that reads "Raj Nathan".

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

QAI LABORATORIES LTD.

Qai.org

Contact Name Lawrence Gibson

Contact Phone +1-604-527-8378

Accredited to ISO/IEC 17025:2017

Effective Date July 30, 2021

Electrical	
AAMI 60601-1	Medical electrical equipment - part 1: general requirements for basic safety and essential performance
AAMI 60601-1-8	Medical electrical equipment – part 1-8: General Requirements For Basic Safety And Essential Performance – Collateral Standard: General Requirements, Tests And Guidance For Alarm Systems In Medical Electrical Equipment And Medical Electrical Systems
AAMI 60601-1-11	Medical electrical equipment – part 1-11: General Requirements For Basic Safety And Essential Performance – Collateral Standard: Requirements For Medical Electrical Equipment And Medical Electrical Systems Used In The Home Healthcare Environment
AAMI 60601-1-12	Medical electrical equipment – part 1-12: Medical Electrical Equipment — Part 1-12: General Requirements For Basic Safety And Essential Performance — Collateral Standard: Requirements For Medical Electrical Equipment And Medical Electrical Systems Intended For Use In The Emergency Medical Services Environment
AAMI 80601-2-78	Medical electrical equipment – Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation, assessment, compensation or alleviation
ANSI/ISA 12.12.01	Nonincendive electrical equipment for use in class I, division 2 hazardous locations
AS 60529	Degrees of protection provided by enclosures (IP code) Exclude IPX9
AS/NZS 60950-1	Information Technology Equipment – Safety – Part 1: General requirements
AS/NZS 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: general requirements
AS/NZS 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-030: Particular Requirements for Equipment Having Testing or Measuring Circuits
AS/NZS 61010-2-032	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-032: Particular Requirements for Hand-Held

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	and Hand-Manipulated Current Sensors for Electrical Test and Measurement
AS/NZS 61010-2-051	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-051: Particular Requirements for Laboratory Equipment for Mixing and Stirring
AS/NZS 61010-2-081	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-081: Particular Requirements for Automatic and Semi-Automatic Laboratory Equipment for Analysis and Other Purposes
AS/NZS 61010-2-101	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment
AS/NZS 62368-1	Audio/video, information and communication technology equipment – part 1: safety requirements
AS/NZS 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: general requirements
AS/NZS 61010-2-010	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-010: Particular Requirements for Laboratory Equipment for the Heating of Materials
AS/NZS 61010-2-30	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-030: Particular Requirements for Equipment Having Testing or Measuring Circuits
ASME A17.5	Elevator and escalator electrical equipment
BS/EN 60068-2-6	Environmental Testing - Part 2-6: Tests - Test Fc: Vibration (Sinusoidal)
BS/EN 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: general requirements
BS/EN 61010-2-010	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-010: Particular Requirements for Laboratory Equipment for the Heating of Materials
BS/EN 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-030: Particular Requirements for Equipment Having Testing or Measuring Circuits
BS/EN 61010-2-032	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-032: Particular Requirements for Hand-Held and Hand-Manipulated Current Sensors for Electrical Test and Measurement
BS/EN 61010-2-051	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-051: Particular Requirements for Laboratory Equipment for Mixing and Stirring

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BS/EN 61010-2-081	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-081: Particular Requirements for Automatic and Semi-Automatic Laboratory Equipment for Analysis and Other Purposes
BS/EN 61010-2-101	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment
BS/EN 62368-1	Audio/video, information and communication technology equipment – part 1: safety requirements
BS/EN 80601-2-12	Medical electrical equipment – Part 2-12: Medical Electrical Equipment – Part 2-12: Particular Requirements for Basic Safety and Essential Performance of Critical Care Ventilators
BS/EN 80601-2-78	Medical electrical equipment – Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation, assessment, compensation or alleviation
CSA B44.1	Elevator and escalator electrical equipment
CSA C22.2 NO. 0	General requirements - Canadian electrical code, part II
CSA C22.2 NO. 0.1	General requirements for double-insulated equipment
CSA C22.2 NO. 0.4	Bonding of electrical equipment
CSA C22.2 NO. 6	Principles and practices of electrical coordination between pipelines and electric supply lines (only sections 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.4.1, 7.4.2, 8.4.1, 8.4.2 and 8.4.3)
CSA C22.2 NO. 9	General requirements for luminaires
CSA C22.2 NO. 10	Electric floor surfacing and cleaning machines
CSA C22.2 NO. 12	Portable luminaires
CSA C22.2 NO. 14	Industrial control equipment
CSA C22.2 NO. 15	Electrically heated warming pads
CSA C22.2 NO. 18	Outlet boxes, conduit boxes, & fittings
CSA C22.2 NO. 21	Cord sets and power-supply cords (except hospital grade cords and cord sets)
CSA C22.2 NO. 24	Temperature-indicating and -regulating equipment
CSA C22.2 NO. 27	Busways
CSA C22.2 NO. 31	Switchgear assemblies
CSA C22.2 NO. 36	Hairdressing equipment
CSA C22.2 NO. 37	Decorative lighting products

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CSA C22.2 NO. 40	Cutout, junction and pull boxes
CSA C22.2 NO. 41	Grounding Bonding Equipment
CSA C22.2 NO. 42	General use receptacles, attachment plugs, and similar wiring devices (Exclude hospital grade devices)
CSA C22.2 NO. 42.1	Cover Plates for Flush-Mounted Wiring Devices
CSA C22.2 NO. 43	Lamp-holders
CSA C22.2 NO. 46	Electric air-heaters
CSA C22.2 NO. 53	Electric washing machines
CSA C22.2 NO. 55	Special use switches
CSA C22.2 NO. 61	Household cooking ranges
CSA C22.2 NO. 63	Household refrigerators and freezers
CSA C22.2 NO. 64	Household cooking and liquid-heating appliances
CSA C22.2 NO. 66	Specialty transformers
CSA C22.2 NO. 68	Motor-operated appliances (household and commercial)
CSA C22.2 NO. 72	Heater elements (only sections 6.2, 6.3, 6.4 and 6.11)
CSA C22.2 NO. 73	Construction and test of electrically equipped machine tools (only sections 62 and 63)
CSA C22.2 NO. 77	Motors with inherent overheating protection
CSA C22.2 NO. 81	Electric irons
CSA C22.2 NO. 85	Rigid PVC boxes and fittings
CSA C22.2 NO. 88	Construction and test of industrial heating equipment
CSA C22.2 NO. 89	Swimming-pool luminaires, submersible luminaires, and accessories
CSA C22.2 NO. 94	Special purpose enclosures
CSA C22.2 NO. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations
CSA C22.2 NO. 94.2	Enclosures for Electrical Equipment, Environmental Considerations
CSA C22.2 NO. 99	Construction and test of domestic ironing machines (only sections 80, 82, 103 and 106)
CSA C22.2 NO. 100	Motors and generators
CSA C22.2 NO. 101	Electrically heated bedding appliances for household use
CSA C22.2 NO. 104	Humidifiers

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CSA C22.2 NO. 105	Electrical equipment for woodworking machinery (only sections 51 and 52)
CSA C22.2 NO. 107.1	Power conversion equipment
CSA C22.2 NO. 107.2	Battery chargers
CSA C22.2 NO. 108	Liquid pumps
CSA C22.2 NO. 109	Commercial cooking appliances
CSA C22.2 NO. 110	Construction and test of electric storage-tank water heaters (sections 6.2, 6.3, 6.4, 6.5.2, 6.6 and 7.3.1 only)
CSA C22.2 NO. 112	Electric clothes dryers
CSA C22.2 NO. 113	Fans and ventilators
CSA C22.2 NO. 117	Room air conditioners (only sections 6.4, 6.5, 6.6, 6.7, 6.8, 6.10, 6.12.1, 6.12.2, 6.14, 6.15, 6.17 and 6.18)
CSA C22.2 NO. 120	Refrigeration equipment
CSA C22.2 NO. 122	Hand-held electrically heated tools (only sections 6.2, 6.3, 6.4, 6.5, 6.7.1, 6.10, 7.6.2 and 7.6.3)
CSA C22.2 NO. 128	Vending machines (only sections 6.3, 6.4.2, 6.4.3, 6.4.4, 6.4.5, 6.5, 6.6, 6.7, 6.8, 6.9, 6.11, 6.12, 6.13, 6.21 and 6.23)
CSA C22.2 NO. 139	Electrically operated valves
CSA C22.2 NO. 141	Emergency lighting equipment
CSA C22.2 NO. 142	Process control equipment
CSA C22.2 NO. 147	Motor-operated gardening appliances
CSA C22.2 NO. 149	Electrically operated toys
CSA C22.2 NO. 157	Intrinsically safe and non-incendive equipment for use in hazardous locations
CSA C22.2 NO. 158	Terminal blocks (only sections 6.4 and 6.6)
CSA C22.2 NO. 164	Electric sauna heating equipment
CSA C22.2 NO. 166	Stage and studio luminaires
CSA C22.2 NO. 167	Household dishwashers
CSA C22.2 NO. 168	Standard for commercial dishwashers
CSA C22.2 NO. 169	Electric clothes washing machines and extractors
CSA C22.2 NO. 173	Transformers for toy and hobby use
CSA C22.2 NO. 177	Clock-operated switches

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CSA C22.2 NO. 187	Electrostatic air cleaners
CSA C22.2 NO. 189	High-voltage insect killers (only sections 6.3, 6.4, 6.5, 6.6 and 6.11)
CSA C22.2 NO. 191	Engine heaters and battery warmers (only sections 6.2, 6.3, 6.4, 6.13, 6.16, 6.18.2 and 6.18.3)
CSA C22.2 NO. 195	Motor-operated food processing appliances (household and commercial)
CSA C22.2 NO. 200	Electric waterbed heater systems (only sections 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 6.15 and 6.16 only)
CSA C22.2 NO. 203	Modular wiring systems for office furniture
CSA C22.2 NO. 205	Signal equipment
CSA C22.2 NO. 207	Portable and stationary electric signs and displays
CSA C22.2 NO. 213	Nonincendive electrical equipment for use in class I, division 2 hazardous locations
CSA C22.2 NO. 214	Communications cables
CSA C22.2 NO. 217	Radiant space heating panels, panel sets and systems
CSA C22.2 NO. 218.1	Spas, hot tubs and associated equipment
CSA C22.2 NO. 218.2	Hydromassage bathtub appliances
CSA C22.2 NO. 221	Electrically heated hobby and educational type kilns (only sections 6.2, 6.4, 6.5, 6.6 and 6.7)
CSA C22.2 NO. 223	Power supplies with extra-low-voltage class 2 outputs
CSA C22.2 NO. 224	Radiant heaters and infrared and ultraviolet lamp assemblies for cosmetic or hygienic purposes in nonmedical applications
CSA C22.2 NO. 231	Safety requirements for electrical and electronic measuring and test equipment (only sections 7.2, 10, 11.1.1, 11.3, 12.1, 12.2, 12.3, 12.4 and 16.3)
CSA C22.2 NO. 234	Safety of component power supplies
CSA C22.2 NO. 236	Heating and cooling equipment
CSA C22.2 NO. 243	Vacuum cleaners, blower cleaners, and household floor finishing machines
CSA C22.2 NO. 247	Operators and systems of doors, gates, draperies and louvres
CSA C22.2 NO. 248.1	Low-voltage fuses - part 1: general requirements
CSA C22.2 No. 248.14	Low-voltage fuses – part 14: supplemental fuses (only sections 8.2, 8.3 and 8.4)
CSA C22.2 NO. 250.0	Luminaires

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CSA C22.2 NO. 250.1	Retrofit kits for luminaire conversion
CSA C22.2 NO. 250.13	Light emitting diode (LED) equipment for lighting applications
CSA C22.2 NO. 273	Cablebus Except Impulse test and Corona extinction test
CSA C22.2 NO. 1993	Self-Ballasted Lamps and Lamp Adapters
CSA C22.2 NO. 60065	Audio, video and similar electronic apparatus - safety requirements
CSA C22.2 NO. 60335-1	Safety of household and similar appliances - part 1: general requirements
CSA C22.2 NO. 60529	Degrees of protection provided by enclosures (IP code) Exclude IPX9
CSA C22.2 NO. 60601-1	Medical electrical equipment - part 1: general requirements for basic safety and essential performance
CSA C22.2 NO. 60601-1-6	Medical electrical equipment - part 1-6: general requirements for basic safety and essential performance – Collateral standard usability
CSA C22.2 NO. 60601-1-8	Medical electrical equipment – part 1-8: General Requirements For Basic Safety And Essential Performance – Collateral Standard: General Requirements, Tests And Guidance For Alarm Systems In Medical Electrical Equipment And Medical Electrical Systems
CSA C22.2 NO. 60601-1-9	Medical electrical equipment – part 1-9: General requirements for basic safety and essential performance – Collateral standard: Requirements for environmentally conscious design
CSA C22.2 NO. 60601-1-11	Medical electrical equipment – part 1-11: General Requirements For Basic Safety And Essential Performance – Collateral Standard: Requirements For Medical Electrical Equipment And Medical Electrical Systems Used In The Home Healthcare Environment
CSA C22.2 NO. 60601-1-12	Medical electrical equipment – part 1-12: Medical Electrical Equipment — Part 1-12: General Requirements For Basic Safety And Essential Performance — Collateral Standard: Requirements For Medical Electrical Equipment And Medical Electrical Systems Intended For Use In The Emergency Medical Services Environment
CSA C22.2 NO. 60601-2-18	Medical electrical equipment – part 2-18: Particular Requirements for the Safety of Endoscopic Equipment
CSA C22.2 NO. 60601-2-37	Medical electrical equipment – part 2-37: particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment
CSA C22.2 NO. 60745-1	Hand-held motor-operated electric tools - safety - part 1: general requirements
CSA C22.2 NO. 60950	Safety of information technology equipment

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CSA C22.2 NO. 60950-1	Information Technology Equipment – Safety – Part 1: General requirements
CSA C22.2NO. 60950-21	Information Technology Equipment – Safety – Part 21: Remote power feeding
CSA C22.2NO. 60950-23	Information Technology Equipment – Safety – Part 23: Large data storage equipment
CSA C22.2 NO. 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: general requirements
CSA C22.2 NO. 61010-2-010	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-010: Particular Requirements for Laboratory Equipment for the Heating of Materials
CSA C22.2 NO. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-030: Particular Requirements for Equipment Having Testing or Measuring Circuits
CSA C22.2 NO. 61010-2-032	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-032: Particular Requirements for Hand-Held and Hand-Manipulated Current Sensors for Electrical Test and Measurement
CSA C22.2 NO. 61010-2-051	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-051: Particular Requirements for Laboratory Equipment for Mixing and Stirring
CSA C22.2 NO. 61010-2-081	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-081: Particular Requirements for Automatic and Semi-Automatic Laboratory Equipment for Analysis and Other Purposes
CSA C22.2 NO. 61010-2-101	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment
CSA C22.2 NO. 62368-1	Audio/video, information and communication technology equipment – part 1: safety requirements
CSA C22.2 NO. 80601-2-12	Medical electrical equipment – Part 2-12: Medical Electrical Equipment – Part 2-12: Particular Requirements for Basic Safety and Essential Performance of Critical Care Ventilators
CSA C22.2 NO. 80601-2-78	Medical electrical equipment – Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation, assessment, compensation or alleviation
CSA C273.4	Performance requirements for electric heating line-voltage wall thermostats (only sections 5.7, 5.9 and 5.10)
EN 60068-2-6	Environmental Testing - Part 2-6: Tests - Test Fc: Vibration (Sinusoidal)
EN 60529	Degrees of protection provided by enclosures (IP code)

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	Exclude IPX9
EN 60601-1	Medical electrical equipment - part 1: general requirements for basic safety and essential performance
EN 60601-1-6	Medical electrical equipment - part 1-6: general requirements for basic safety and essential performance – Collateral standard usability
EN 60601-1-8	Medical electrical equipment – part 1-8: General Requirements For Basic Safety And Essential Performance – Collateral Standard: General Requirements, Tests And Guidance For Alarm Systems In Medical Electrical Equipment And Medical Electrical Systems
EN 60601-1-9	Medical electrical equipment – part 1-9: General requirements for basic safety and essential performance – Collateral standard: Requirements for environmentally conscious design
EN 60601-1-11	Medical electrical equipment – part 1-11: General Requirements For Basic Safety And Essential Performance – Collateral Standard: Requirements For Medical Electrical Equipment And Medical Electrical Systems Used In The Home Healthcare Environment
EN 60601-1-12	Medical electrical equipment – part 1-12: Medical Electrical Equipment — Part 1-12: General Requirements For Basic Safety And Essential Performance — Collateral Standard: Requirements For Medical Electrical Equipment And Medical Electrical Systems Intended For Use In The Emergency Medical Services Environment
EN 60601-2-18	Medical electrical equipment – part 2-18: Particular Requirements for the Safety of Endoscopic Equipment
EN 60601-2-37	Medical electrical equipment - part 2-37: particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment
EN 60950-1	Information Technology Equipment – Safety – Part 1: General requirements
EN 60950-21	Information Technology Equipment – Safety – Part 21: Remote power feeding
EN 60950-23	Information Technology Equipment – Safety – Part 23: Large data storage equipment
EN 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: general requirements
EN 61010-2-010	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-010: Particular Requirements for Laboratory Equipment for the Heating of Materials

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EN 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-030: Particular Requirements for Equipment Having Testing or Measuring Circuits
EN 61010-2-032	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-032: Particular Requirements for Hand-Held and Hand-Manipulated Current Sensors for Electrical Test and Measurement
EN 61010-2-051	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-051: Particular Requirements for Laboratory Equipment for Mixing and Stirring
EN 61010-2-081	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-081: Particular Requirements for Automatic and Semi-Automatic Laboratory Equipment for Analysis and Other Purposes
EN 61010-2-101	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment
EN 62368-1	Audio/video, information and communication technology equipment – part 1: safety requirements
EN 80601-2-12	Medical electrical equipment – Part 2-12: Medical Electrical Equipment – Part 2-12: Particular Requirements for Basic Safety and Essential Performance of Critical Care Ventilators
IEC 60068-2-6	Environmental Testing - Part 2-6: Tests - Test Fc: Vibration (Sinusoidal)
IEC 60529	Degrees of protection provided by enclosures (IP code) Exclude IPX9
IEC 60601-1	Medical electrical equipment - part 1: general requirements for basic safety and essential performance
IEC 60601-1-6	Medical electrical equipment - part 1-6: general requirements for basic safety and essential performance – Collateral standard usability
IEC 60601-1-8	Medical electrical equipment – part 1-8: General Requirements For Basic Safety And Essential Performance – Collateral Standard: General Requirements, Tests And Guidance For Alarm Systems In Medical Electrical Equipment And Medical Electrical Systems
IEC 60601-1-9	Medical electrical equipment – part 1-9: General requirements for basic safety and essential performance – Collateral standard: Requirements for environmentally conscious design
IEC 60601-1-11	Medical electrical equipment – part 1-11: General Requirements For Basic Safety And Essential Performance – Collateral Standard: Requirements For Medical Electrical Equipment And Medical Electrical Systems Used In The Home Healthcare Environment

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IEC 60601-1-12	Medical electrical equipment – part 1-12: Medical Electrical Equipment — Part 1-12: General Requirements For Basic Safety And Essential Performance — Collateral Standard: Requirements For Medical Electrical Equipment And Medical Electrical Systems Intended For Use In The Emergency Medical Services Environment
IEC 60601-2-18	Medical electrical equipment – part 2-18: Particular Requirements for the Safety of Endoscopic Equipment
IEC 60601-2-37	Medical electrical equipment - part 2-37: particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment
IEC 60950-1	Information Technology Equipment – Safety – Part 1: General requirements
IEC 60950-21	Information Technology Equipment – Safety – Part 21: Remote power feeding
IEC 60950-23	Information Technology Equipment – Safety – Part 23: Large data storage equipment
IEC 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: general requirements
IEC 61010-2-010	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-010: Particular Requirements for Laboratory Equipment for the Heating of Materials
IEC 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-030: Particular Requirements for Equipment Having Testing or Measuring Circuits
IEC 61010-2-032	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-032: Particular Requirements for Hand-Held and Hand-Manipulated Current Sensors for Electrical Test and Measurement
IEC 61010-2-051	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-051: Particular Requirements for Laboratory Equipment for Mixing and Stirring
IEC 61010-2-081	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-081: Particular Requirements for Automatic and Semi-Automatic Laboratory Equipment for Analysis and Other Purposes
IEC 61010-2-101	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment
IEC 62368-1	Audio/video, information and communication technology equipment – part 1: safety requirements

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IEC 80601-2-78	Medical electrical equipment – Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation, assessment, compensation or alleviation
ISO 80601-2-12	Medical electrical equipment – Part 2-12: Medical Electrical Equipment – Part 2-12: Particular Requirements for Basic Safety and Essential Performance of Critical Care Ventilators
NEMA 250	Enclosures for Electrical Equipment (1000 Volts Maximum)
NMX-J-009/248/1-ANCE	Low voltage fuses – part 1: general requirements
NMX-J-009/248/14-ANCE	Low-voltage fuses – part 14: supplemental fuses (only sections 8.2, 8.3 and 8.4)
NZS 60529	Degrees of protection provided by enclosures (IP code) Exclude IPX9
UL 48	Standard for electric signs
UL 50	Enclosures for electrical equipment, non-environmental considerations
UL 50E	Enclosures for Electrical Equipment, Environmental Considerations
UL 65	Standard for wired cabinets
UL 73	Standard for motor-operated appliances
UL 82	Standard for electric gardening appliances
UL 130	Standard for electric heating pads
UL 141	Standard for garment finishing appliances
UL 153	Standard for portable electric luminaires
UL 174	Standard for household electric storage tank water heaters
UL 197	Standard for commercial electric cooking appliances
UL 234	Low Voltage Lighting Fixtures for Use in Recreational Vehicles
UL 248-1	Low-voltage fuses – part 1: general requirements
UL 248-14	Low-voltage fuses - part 14: supplemental fuses (only sections 8.2, 8.3 and 8.4)
UL 250	Household refrigerators and freezers
UL 325	Standard for door, drapery, gate, louver, and window operators and systems
UL 355	Cord reels
UL 444	Communications cables

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UL 458	Standard for power converters/inverters and power converter/inverter systems for land vehicles and marine crafts
UL 467	Grounding Bonding Equipment
UL 471	Standard for commercial refrigerators and freezers Exclude Fatigue Test Analysis
UL 482	Standard for portable sun/heat lamps
UL 484	Standard for room air conditioners
UL 496	Standard for lamp holders
UL 498	Standard for attachment plugs and receptacles (exclusion supplement SD, hospital grade devices)
UL 499	Standard for electric heating appliances
UL 507	Standard for electric fans
UL 508	Industrial Control Equipment
UL 508A	Industrial Control Panels
UL 514C	Nonmetallic Outlet Boxes, Flush-Device Boxes and Covers
UL 514D	Cover Plates for Flush-Mounted Wiring Devices
UL 588	Standard for seasonal and holiday decorative products
UL 676	Standard for underwater luminaires and submersible junction boxes
UL 696	Standard for electric toys
UL 697	Standard for toy transformers
UL 749	Household dishwashers
UL 751	Standard for vending machines
UL 778	Standard for motor-operated water pumps
UL 826	Standard for household electric clocks
UL 857	Busways
UL 858	Standard for household electric ranges
UL 859	Standard for household electric personal grooming appliances
UL 867	Standard for electrostatic air cleaners
UL 873	Standard for temperature-indicating and -regulating equipment
UL 875	Standard for electric dry-bath heaters

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UL 913	Standard for intrinsically safe apparatus and associated apparatus for use in class I, II, III, division 1, hazardous (classified) locations
UL 917	Standard for clock-operated switches
UL 921	Commercial dishwashers (exclude gas-fired dishwashers)
UL 924	Standard for emergency lighting and power equipment
UL 962	Household and Commercial Furnishing
UL 962A	Furniture Power Distribution Units
UL 964	Standard for electrically heated bedding
UL 998	Humidifiers
UL 1012	Standard for power units other than class 2
UL 1017	Vacuum cleaners, blower cleaners, and household floor finishing machines
UL 1026	Standard for household electric cooking and food serving appliances
UL 1030	Standard for sheathed heating elements
UL 1059	Standard for terminal blocks
UL 1310	Standard for class 2 power units
UL 1445	Standard for safety electric water bed heaters
UL 1559	Standard for insect-control equipment - electrocution type
UL 1563	Standard for electric spas, equipment assemblies, and associated equipment
UL 1573	Standard for stage and studio luminaires and connector strips
UL 1574	Standard for track lighting systems
UL 1598	Luminaires
UL 1693	Standard for electric radiant heating panels and heating panel sets
UL 1795	Standard for hydromassage bathtubs
UL 1951	Electric plumbing accessories
UL 1993	Self-Ballasted Lamps and Lamp Adapters
UL 1995	Heating and cooling equipment
UL 2017	Standard for general-purpose signaling devices and systems
UL 2108	Standard for safety low voltage lighting systems
UL 2157	Electric clothes washing machines and extractors

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UL 2158	Electric clothes dryers
UL 3111	Standard for safety electrical measuring and test equipment part 1: general requirements
UL 3121-1	Process control equipment
UL 8750	Light Emitting Diode (LED) Equipment for Use in Lighting Products
UL 60335-1	Safety of household and similar appliances, part 1: general requirements
UL 60335-2-3	Standard for safety of household and similar electrical appliances - part 2-3: particular requirements for electric irons
UL 60601-1	Medical electrical equipment - Part 1: General requirements for safety
UL 60745-1	Hand-held motor-operated electric tools - safety - part 1: general requirements
UL 60950-1	Information Technology Equipment – Safety – Part 1: General requirements
UL 60950-21	Information Technology Equipment – Safety – Part 21: Remote power feeding
UL 60950-23	Information Technology Equipment – Safety – Part 23: Large data storage equipment
UL 61010-1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: general requirements
UL 61010-2-010	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-010: Particular Requirements for Laboratory Equipment for the Heating of Materials
UL 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-030: Particular Requirements for Equipment Having Testing or Measuring Circuits
UL 61010-2-032	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-032: Particular Requirements for Hand-Held and Hand-Manipulated Current Sensors for Electrical Test and Measurement
UL 61010-2-051	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-051: Particular Requirements for Laboratory Equipment for Mixing and Stirring
UL 61010-2-081	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 2-081: Particular Requirements for Automatic and Semi-Automatic Laboratory Equipment for Analysis and Other Purposes
UL 61010-2-101	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment

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UL 61010C-1	Standard for safety process control equipment
UL 62368-1	Audio/video, information and communication technology equipment - part 1: safety requirements
UL 121201	Nonincendive electrical equipment for use in class I, division 2 hazardous locations
Physical	
AAMA/WDMA/CSA 101/IS2/A440	North American fenestration standard
ANSI/TPI 1	National design standard for metal plate connected wood truss construction (sections 4.3, 4.4, 4.5, 4.6, 5.2, 5.3, 5.4, 5.5)
ANSI/UL 263	Standard for fire tests of building construction and materials
ASTM D635	Standard test method for rate of burning and/or extent and time of burning of plastics in a horizontal position
ASTM E119	Standard test methods for fire tests of building construction and materials
ASTM E283	Standard test method for determining rate of air leakage through exterior windows, curtain walls, and doors under specified pressure differences across the specimen
ASTM E330/E330M	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference
ASTM E331	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
ASTM E547	Standard test method for water penetration of exterior windows, skylights, doors, and curtain walls by cyclic static air pressure difference
ASTM E598	Standard test method for measuring extreme heat-transfer rates from high-energy environments using a transient, null-point calorimeter (except section 16.7)
ASTM E814	Standard test method for fire tests of penetration firestop systems
ASTM E1354	Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter
ASTM E2074	Standard test method for fire tests of door assemblies, including positive pressure testing of side-hinged and pivoted swinging door assemblies
ASTM F588	Standard test methods for measuring the forced entry resistance of window assemblies, excluding glazing impact
CAN/CSA A220	Concrete roof tiles (only sections 5, 6 and 7)

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CAN/CSA A220.1	Installation of concrete roof tiles (only subsections 4.5.6.2, 4.5.6.3 and 4.5.6.4)
CAN/CSA A440.2/A440.3	Fenestration energy performance / user guide to CSA A440.2-14, fenestration energy performance (limited to computer modeling evaluations only)
CAN/ULC S107	Standard methods of fire test of roof coverings (only section 5.6)
CAN/ULC-S115	Fire Tests of Fire Stop Systems
CAN/ULC-S124	Standard Method of test for the Evaluation of Thermal Barriers for Foamed Plastic
CSA O112	Standards for wood adhesives series (only section 4.2)
CSA O151	Canadian softwood plywood (only section 5.2)
CSA O452	Design rated OSB
CSA O452-1	Design rated OSB: test methods (only sections 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, and 6.8)
CSA O452-2	Design rated OSB: quality assurance (only subsections 7.1, 7.2 and 7.3)
CSA C22.2 NO. 0.17	Evaluation of properties of polymeric materials
ICC ES AC07	Special roofing systems (test methods referenced in section 4.4)
ICC ES AC273	Handrails and guardrails (test methods referenced in sections 3.0 and 4.0)
NFPA 251	Standard methods of tests of fire resistance of building construction and materials
NFPA 252	Standard methods of fire tests of door assemblies
NFPA 275	Standard Method of Fire Tests for the Evaluation of Thermal Barriers (Part 1)
NFPA 288	Standard Methods of Fire Tests of Horizontal Fire Door Assemblies Installed in Horizontal Fire Resistance-Rated Assemblies
UBC 7-1	Fire tests of building construction and materials
UBC 7-2	Fire tests of door assemblies
UL 10B	Standard for fire tests of door assemblies
UL 10C	Standard for positive pressure fire tests of door assemblies
UL 94	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances (exclude radiant panel flame spread test)
UL 1479	Standard for fire tests of penetration firestops
UL 2218	Standard for impact resistance of prepared roof covering materials

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ULC S101	Standard methods of fire endurance tests of building construction and materials
ULC S104	Standard method for fire tests of door assemblies
ULC S105	Standard specification for fire door frames meeting the performance required by CAN/ULC-S104
ULC S114	Standard Method Of Test For Determination Of Non-Combustibility In Building Materials
ULC S135	Standard Test Method For The Determination Of Combustibility Parameters Of Building Materials Using An Oxygen Consumption Calorimeter (Cone Calorimeter)
Plumbing	
ASME 112.19.3	Stainless steel plumbing fixtures (only section 5 except 5.3 and 5.4)
ASTM C301	Standard test methods for vitrified clay pipe (only section 5.4)
CSA B45.4	Stainless steel plumbing fixtures (only section 5 except 5.3 and 5.4))
CSA B45.5	Plastic plumbing fixtures (only sections 5.1, 5.3, 5.6, 5.7, 5.8, 5.9, 5.13 and 5.14)
CSA B45.6	Nonrecirculating toilets, vacuum toilets, and waste-holding tanks for use in recreational vehicles (Section 7)
CSA B45.8	Terrazzo plumbing fixtures (only subsection 5.1, 5.2, and 5.3)
CSA B70	Cast iron soil pipe, fittings, and means of joining (only section 4)
CSA B137.0	Thermoplastic pressure piping compendium (only subsection 6.9)
CSA B137.3	Rigid polyvinylchloride (PVC) pipe and fittings for pressure applications (only subsection 6.4.2)
CSA B137.4	Polyethylene piping systems for gas services (only subsection 4.3)
CSA B137.4.1	Electrofusion-type polyethylene (PE) fittings for gas services (only subsection 5.6)
CSA B137.9	Polyethylene / aluminum / polyethylene (PE-AL-PE) composite pressure-pipe systems (only subsection 5.7 and 5.8)
CSA B137.12	Polyamide-11 (PA-11) piping systems for gas services (only subsection 4.3)
CSA B181.1	ABS drain, waste, and vent pipe and pipe fittings (only subsection 5.15)
CSA B181.2	PVC drain, waste, and vent pipe and pipe fittings (only subsection 5.15)
CSA B182.1	Plastic drain and sewer pipe and pipe fittings (only subsections 5.12, 5.14, 5.15 and 5.17)
CSA B182.6	Profile polyolefin sewer pipe & fittings (only subsection 8.7)

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CSA B182.7	Multilayer PVC sewer pipe (PSM type) having reprocessed - recycled content (only subsection 8.7)
IAPMO TS 2	Wasteholding Tanks
IAPMO TS 4	Pressurized And Non-Pressurized Potable Water Tanks For Use In Recreational Vehicles
IAPMO Z124	Plastic plumbing fixtures (only sections 5.1, 5.3, 5.6, 5.7, 5.8, 5.9, 5.13 and 5.14)
IAPMO Z403	Terrazzo plumbing fixtures (only subsection 5.1, 5.2, and 5.3)
Structural	
ASTM E330/E330M	Standard test method for structural performance of exterior windows, doors, skylights and curtain walls by uniform static air pressure difference
CGSB 37-GP-56M	Membrane, modified, bituminous, prefabricated, and reinforced for roofing (only sections 7.2.2 and 7.2.3)
Environmental	
AS 60950-22	Information Technology Equipment – Safety – Part 22: Equipment to be Installed Outdoors
BS EN 60068-2-1	Environmental testing – Part 2-1: Tests – Test A: Cold
BS EN 60068-2-2	Environmental testing – Part 2-6: Tests – Test B; Dry heat
BS EN 60068-2-11	Basic environmental testing procedures – Part 2: Tests – Test Ka: Salt mist
BS EN 60068-2-14	Environmental testing – Part 2-14: Tests – Test N: Change of temperature
BS EN 60068-2-27	Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock
BS EN 60068-2-30	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic
BS EN 60068-2-57	Environmental testing – Part 2-57: Tests – Test Ff: vibration – time-history method
BS EN 60068-2-75	Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests except Test Eha: Pendulum hammer
BS EN 60068-2-78	Environmental testing – Part 2-78: Tests – Test Cab: damp heat, steady state
BS EN 60950-22	Information Technology Equipment – Safety – Part 22: Equipment to be Installed Outdoors
CSA C22.2 60950-22	Information Technology Equipment – Safety – Part 22: Equipment to be Installed Outdoors
EN 60068-2-1	Environmental testing – Part 2-1: Tests – Test A: Cold
EN 60068-2-2	Environmental testing – Part 2-6: Tests – Test B; Dry heat

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EN 60068-2-11	Basic environmental testing procedures – Part 2: Tests – Test Ka: Salt mist
EN 60068-2-14	Environmental testing – Part 2-14: Tests – Test N: Change of temperature
EN 60068-2-27	Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock
EN 60068-2-30	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic
EN 60068-2-57	Environmental testing – Part 2-57: Tests – Test Ff: vibration – time-history method
EN 60068-2-75	Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests except Test Eha: Pendulum hammer
EN 60068-2-78	Environmental testing – Part 2-78: Tests – Test Cab: damp heat, steady state
EN 60950-22	Information Technology Equipment – Safety – Part 22: Equipment to be Installed Outdoors
IEC 60068-2-1	Environmental testing – Part 2-1: Tests – Test A: Cold
IEC 60068-2-2	Environmental testing – Part 2-6: Tests – Test B; Dry heat
IEC 60068-2-11	Basic environmental testing procedures – Part 2: Tests – Test Ka: Salt mist
IEC 60068-2-14	Environmental testing – Part 2-14: Tests – Test N: Change of temperature
IEC 60068-2-27	Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock
IEC 60068-2-30	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic
IEC 60068-2-57	Environmental testing – Part 2-57: Tests – Test Ff: vibration – time-history method
IEC 60068-2-75	Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests except Test Eha: Pendulum hammer
IEC 60068-2-78	Environmental testing – Part 2-78: Tests – Test Cab: damp heat, steady state
IEC 60945	Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test result except Solar Radiation & Corrosion (Salt Mist)
IEC 60950-22	Information Technology Equipment – Safety – Part 22: Equipment to be Installed Outdoors
MIL STD 810 M501.6	Department of Defense Test Method Standards - Environmental Engineering Considerations and Laboratory Tests - Method 501 – High temperature
MIL STD 810 M502.6	Department of Defense Test Method Standards - Environmental Engineering Considerations and Laboratory Tests - Method 502 – Low temperature

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MIL STD 810 M503.6	Department of Defense Test Method Standards - Environmental Engineering Considerations and Laboratory Tests - Method 503 – Temperature shock
MIL STD 810 M507.6	Department of Defense Test Method Standards - Environmental Engineering Considerations and Laboratory Tests - Method 507 - Humidity
MIL STD 810 M509.6	Department of Defense Test Method Standards - Environmental Engineering Considerations and Laboratory Tests - Method 509 - Salt Fog
MIL STD 810 M514.7	Department of Defense Test Method Standards - Environmental Engineering Considerations and Laboratory Tests - Method 514 - Vibration
MIL STD 810 M516.7	Department of Defense Test Method Standards - Environmental Engineering Considerations and Laboratory Tests - Method 516 - Shock
NZS 60950-22	Information Technology Equipment – Safety – Part 22: Equipment to be Installed Outdoors
RTCA DO-160G Sect. 4.5	Environmental Conditions and Test Procedures for Airborne Equipment - Section 4.5 – Temperature tests
RTCA DO-160G Sect. 8	Environmental Conditions and Test Procedures for Airborne Equipment - Section 8 - Vibration
RTCA DO-160G Sect. 14	Environmental Conditions and Test Procedures for Airborne Equipment - Section 14 - Salt Spray
UL 60950-22	Information Technology Equipment – Safety – Part 22: Equipment to be Installed Outdoors

AAMA – American Architectural Manufacturers Association

ANSI – American National Standards Institute

ASTM – American Society of Testing Materials

BS – British Standards Institute

CSA: Canadian Standards Association

CGSB – Canadian General Standards Board

EN – European Normative

IAPMO – International Association of Plumbing and Mechanical Officials

ICC ES – International Code Council – Evaluation

IEC – International Electrotechnical Commission

NFPA: National Fire Protection Association

TPI: Truss Plate Institute

UBC: Uniform Building Code

UL: Underwriters Laboratories

ULC: Underwriters Laboratories Canada

WDMA – Window & Door Manufacturers Association