CERTIFICATE OF ACCREDITATION

This is to attest that

UL LLC

333 PFINGSTEN ROAD
NORTHBROOK, ILLINOIS 60062, U.S.A.

Testing Laboratory TL-157

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories as well as the FDA ASCA Program specifications*, 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 February 14, 2025

IAS ACCREDITED

International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

UL LLC

www.ul.com

Location	Address	Contact Name	Contact Phone	Scope pages
Main	333 Pfingsten Rd. Northbrook, IL 60062, USA	Rick A. Titus	+1-847-664-3281	2-49
Satellite	750 Anthony Trail Northbrook, IL 60062, USA	Frank Calabrese	+1-847-664-3564	50-51

Accredited to ISO/IEC 17025:2017 *Effective Date February 14, 2025*

FDA ASCA Program

FDA ASCA Program Scope

Basic Safety and Essential Performance of Medical Electrical Equipment, Medical Electrical Systems and Laboratory Medical Equipment	
ANSI AAMI ES60601-1:2005/(R)2012 & A1:2012, C1:2009/(R)2012 & A2:2010/(R)2012 (Cons. Text) [Incl. AMD2:2021] [19-46]	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance (IEC 60601-1:2005, MOD) [Including Amendment 2 (2021)]
ANSI AAMI HA60601-1-11:2015 [Including AMD1:2021] [19-47]	Medical Electrical Equipment -- Part 1-11: General requirements for basic safety and essential performance -- Collateral Standard: Requirements for medical electrical equipment and medical electrical equipment and medical electrical systems used in the home healthcare environment (IEC 60601-1-11:2015 MOD) [Including Amendment1 (2021)]
ANSI AAMI IEC 60601-2-2:2017 [6-389]	Medical electrical equipment – Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories
ANSI AAMI IEC 60601-2-16:2018 [9-121]	Medical electrical equipment – Part 2-16: Particular requirements for basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment
ANSI AAMI IEC	Medical electrical equipment – Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs

60601-2-25:2011/(R)2016 [3-105]	
ANSI AAMI IEC 60601-2-27:2011(R)2016 [3-126]	Medical electrical equipment – Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment
ANSI AAMI IEC 60601-2-47:2012/(R)2016 [3-115]	Medical electrical equipment – Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems
ANSI AAMI IEC 80601-2-30:2018 [3-123]	Medical electrical equipment – Part 2-30: Particular requirements for basic safety and essential performance of automated type non-invasive sphygmomanometers
IEC 60601-1-6 Edition 3.2 2020-07 CONSOLIDATED VERSION [5-132]	Medical electrical equipment – Part 1-6: General requirements for basic safety and essential performance – Collateral standard: Usability
IEC 60601-1-8 Edition 2.1 2012-11 [5-76]	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 60601-1-8 Edition 2.2 2020-07 CONSOLIDATED VERSION [5-131]	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 60601-1-10 Edition 1.2 2020-07 CONSOLIDATED VERSION [19-37]	Medical electrical equipment – Part 1-10: General requirements for basic safety and essential performance – Collateral Standard: Requirements for the development of physiologic closed-loop controllers
IEC 60601-1-11 Edition 2.1 2020-07 CONSOLIDATED VERSION [19-38]	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

IEC 60601-1-12 Edition 1.0 2014-06 [19-15]	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 60601-1-12 Edition 1.1 2020-07 CONSOLIDATED VERSION [19-39]	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 60601-2-2 Edition 6.0 2017-03 [6-389]	Medical electrical equipment – Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories
IEC 60601-2-5: Edition 3.0 2009-07 [12-205]	Medical electrical equipment – Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment
IEC 60601-2-8 Edition 2.1 b:2015 [12-301]	Medical electrical equipment – Part 2-8: Particular requirements for the safety of therapeutic X-ray equipment operating in the range 10 kV to 1 MV
IEC 60601-2-10 Edition 2.1 2016-04 [17-16]	Medical electrical equipment – Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators
IEC 60601-2-11 Edition 3.0 2013-01 [12-255]	Medical electrical equipment – Part 2-11: Particular requirements for the basic safety and essential performance of gamma beam therapy equipment
IEC 60601-2-16 Edition 5.0 2018-4 [9-121]	Medical electrical equipment – Part 2-16: Particular requirements for the basic safety and essential performance of haemodialysis, haemodiafiltration and haemonfiltration equipment
IEC 60601-2-18: Edition 3.0 2009-08 [9-114]	Medical electrical equipment – Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment
IEC 60601-2-19 Edition 2.1 2016-04 [6-385]	CONSOLIDATED VERSION Medical electrical equipment – Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators

IEC 60601-2-20 Edition 2.1 2016-04 [6-386]	CONSOLIDATED VERSION Medical electrical equipment – Part 2-20: Particular requirements for the basic safety and essential performance of infant transport incubators [Including: Amendment 1 (2016)]
IEC 60601-2-21 Edition 2.1 2016-04 [6-388]	CONSOLIDATED VERSION Medical electrical equipment – Part 2-21: Particular requirements for the basic safety and essential performance of infant radiant warmers [Including: Amendment 1 (2016)]
IEC 60601-2-23 Edition 3.0 2011-02 [1-87]	Medical electrical equipment – Part 2-23: Particular requirements for the basic safety and essential performance of transcutaneous partial pressure monitoring equipment
IEC 60601-2-25 Edition 2.0 2011-10 [3-105]	Medical electrical equipment – Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs
IEC 60601-2-27 Edition 3.0 2011-03 [3-126]	Medical electrical equipment – Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment [Including: Corrigendum 1 (2012)]
IEC 60601-2-28 Edition 3.0 2017-06 [12-309]	Medical electrical equipment – Part 2-28: Particular requirements for the basic safety and essential performance of X-ray tube assemblies for medical diagnosis
IEC 60601-2-29 Edition 3.0 2008-06 [12-211]	Medical electrical equipment – Part 2-29: Particular requirements for the basic safety and essential performance of radiotherapy simulators
IEC 60601-2-34 Edition 3.0 2011-05 [3-115]	Medical electrical equipment – Part 2-34: Particular requirements for the basic safety, including essential performance, of invasive blood pressure monitoring equipment
IEC 60601-2-36 Edition 2.0 2014-04 [9-119]	Medical electrical equipment – Part 2-36: Particular requirements for the safety of equipment for extracorporeally induced lithotripsy
IEC 60601-2-37 Edition 2.1 2015 [12-293]	Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment
IEC	Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of x-ray equipment for computed tomography

60601-2-44 Edition 3.2: 2016 [12-302]	
IEC 60601-2-45 Edition 3.1 2015 [12-294]	Medical electrical equipment – Part 2-45: Particular requirements for the basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices
IEC 60601-2-47 Edition 2.0 2012-02 [3-155]	Medical electrical equipment – Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems
IEC 60601-2-50 Edition 2.1 2016-04 [6-387]	CONSOLIDATED VERSION Medical electrical equipment – Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment [Including: Amendment 1 (2016)]
IEC 60601-2-50 Edition 3.0 2020-09 [6-450]	Medical electrical equipment – Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment
IEC 60601-2-52 Edition 1.0 2009-12 [6-321]	Medical electrical equipment – Part 2-52: Particular requirements for basic safety and essential performance of medical beds [Including: Technical Corrigendum 1 (2010)]
IEC 60601-2-57 Edition 1.0 2011-01 [12-242]	Medical Electrical Equipment – Part 2-57: Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use
IEC 60601-2-62 Edition 1.0 2013-07 [12-281]	Medical electrical equipment – Part 2-62: Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment
IEC 61010-1 Edition 3.1 2017-01 CONSOLIDATED VERSION [19-34]	Safety requirements for electrical equipment for measurement control and laboratory use – Part 1: General requirements
IEC 80601-2-30: Edition 2.0 2018-03 [3-123]	Medical electrical equipment – Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers
IEC	CONSOLIDATED VERSION Medical electrical equipment – Part 2-35: Particular requirements for the basic safety and essential performance of

80601-2-35 Edition 2.1 2016-04 [6-390]	heating devices using blankets, pads or mattresses and intended for heating in medical use [Including: Amendment 1 (2016)]
IEC 80601-2-59 Edition 2.0 2017-09 [6-405]	Medical electrical equipment – Part 2-59: Particular requirements for the basic safety and essential performance of screening thermographs for human febrile temperature screening
IEC 80601-2-60 Edition 2.0 2019-06 [4-262]	Medical electrical equipment – Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment
ISO 80601-2-55 Second edition 2018-02 [1-140]	Medical electrical equipment – Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors
ISO 80601-2-56 Second edition 2017-03 [6-421]	Medical electrical equipment – Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement. [Including: Amendment 1 (2018)].
ISO 80601-2-61 Second edition 2017-12 (Corrected version 2018-02) [1-139]	Medical electrical equipment – Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment

Regular Scope

Electrical/Electronic	
16 CFR 1263	Button cell and coin batteries and consumer products containing such batteries
ANSI/AAMI ES60601-1	Medical electrical equipment – part 1: general requirements for basic safety and essential performance
ANSI/AAMI HA60601-1-11	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
ANSI/AAMI/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
ANSI/AAMI/IEC 60601-2-2	Medical electrical equipment – part 2-2: particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories

ANSI/AAMI/IEC 60601-2-16	Medical electrical equipment – part 2-16: particular requirements for basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment
ANSI/AAMI/IEC 60601-2-19	Medical electrical equipment – part 2-19: particular requirements for the basic safety and essential performance of infant incubators
ANSI/AAMI/IEC 60601-2-20	Medical electrical equipment – part 2-20: particular requirements for the basic safety and essential performance of infant transport incubators
ANSI/AAMI/IEC 60601-2-21	Medical electrical equipment – part 2-21: particular requirements for the basic safety and essential performance of infant radiant warmers
ANSI/AAMI/IEC 60601-2-25	Medical electrical equipment – part 2-25: particular requirements for the basic safety and essential performance of electrocardiographs
ANSI/AAMI/IEC 60601-2-27	Medical electrical equipment – part 2-27: particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment
ANSI/AAMI/IEC 60601-2-47	Medical electrical equipment – part 2-47: particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems
ANSI/AAMI/IEC 60601-2-50	Medical electrical equipment – Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment
ANSI/AAMI/IEC 80601-2-30	Medical electrical equipment – part 2-30: particular requirements for the basic safety and essential performance of automated non- invasive sphygmomanometers
ANSI AAMI IEC 80601-2-30:2009 & A1:2013 (R2016)	Medical electrical equipment – Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers
ANSI/AAMI/IEC 80601-2-35	Medical electrical equipment – part 2-35: particular requirements for the basic safety and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use
AS ISO 7240.23:2014	Fire detection and alarm systems – part 23: visual alarm devices
AS 2362.25	Fire detection, warning, control and intercom systems – Methods of test Indicator visibility test
AS 4428.3	Fire Detection, Warning, Control and Intercom Systems – Control and Indicating Equipment, Part 3: Fire Brigade Panel
AS 4777.1	Grid connection of energy systems via inverters – installation requirements
AS 4777.3	Grid connection of energy systems via inverters – grid protection requirements
AS 7240.2	Fire Detection and Alarm systems; Part 2: Control and Indicating Equipment
AS 7240.3	Fire detection and alarm systems; Part 3: Audible alarm devices
AS 7240.4	Fire Detection and Alarm systems; Part 2: Power Supply Equipment
AS 7240.5	Fire detection and alarm systems; Part 5: Point type heat detectors
AS 7240.7	Fire detection and alarm systems; Part 7: Point-type smoke detectors using scattered light, transmitted light or ionization
AS 7240.13	Fire detection and alarm systems; Part 13: Compatibility assessment of system components (ISO 7240-13:2018 (ED 2.0) MOD)
AS 7240.15	Fire detection and alarm systems, Part 15: Point type fire detectors using smoke and heat sensors
AS 7240.17	Fire detection and fire alarm systems Part 17: Shortcircuit isolators

AS 7240.18	Fire detection and alarm systems Part 18: Input/output devices
AS 62040.1.1	Uninterruptible power systems (UPS) – general and safety requirements for UPS used in operator access areas
CAN/CSA C22.2 NO. 60601-1	Medical electrical equipment – part 1: general requirements for basic safety and essential performance
CAN/CSA C22.2 NO. 60601-2-4	Medical electrical equipment – part 2-4: particular requirements for the basic safety and essential performance of cardiac defibrillators
CAN/CSA C22.2 NO. 60601-2-10	Medical electrical equipment – part 2-10: particular requirements for the basic safety and essential performance of nerve and muscle stimulators
CAN/CSA C22.2 NO. 60601-2-16	Medical electrical equipment – part 2-16: particular requirements for the basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment
CAN/CSA C22.2 NO. 60601-2-17	Medical electrical equipment – part 2-17: particular requirements for the basic safety and essential performance of automatically-controlled brachytherapy afterloading equipment
CAN/CSA C22.2 NO. 60601-2-18	Medical electrical equipment – part 2-18: particular requirements for the basic safety and essential performance of endoscopic equipment
CAN/CSA C22.2 NO. 60601-2-30	Medical Electrical equipment – part 2-30: particular requirements for the safety, including essential performance, of automatic cycling non-invasive blood pressure monitoring equipment
CAN/CSA C22.2 NO. 60601-2-46	Medical electrical equipment – part 2-46: particular requirements for the basic safety and essential performance of operating tables
CAN/ULC S525	Audible signaling devices for fire alarm and signaling systems, including accessories
CAN/ULC S526	Visible signal devices for fire alarm systems, including accessories
CAN/ULC S527	Control units for fire alarm systems
CAN/ULC S528	Standard for manual station for fire alarm systems, including accessories
CAN/ULC S529	Standard for smoke detectors for fire alarm systems
CAN/ULC S530	Standard for heat actuated fire detectors for fire alarm systems
CAN/ULC S531	Standard for smoke alarms
CAN/ULC S533	Standard for egress door securing and releasing devices
CAN/ULC S536	Standard for inspection and testing of fire alarm systems
CAN/ULC S537	Standard for verification of fire alarm systems
CAN/ULC S541	Speakers for fire alarm systems, including accessories
CAN/ULC S545	Standard for residential fire warning system control units
CAN/ULC S559	Standard for equipment for fire signal receiving centres and systems
CAN/ULC S576	Standard for mass notification system equipment and accessories
CENELEC-EN 50104	Electrical apparatus for the detection and measurement of oxygen – performance requirements and test methods
CENELEC-EN 50270	Electromagnetic compatibility – electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen

CENELEC-EN 50271	Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen – requirements and tests for apparatus using software and/or digital technologies
CENELEC-EN 50303	Group I, category M1 equipment intended to remain functional in atmospheres endangered by firedamp and/or coal dust
CENELEC-EN 50399	Common test methods for cables under fire conditions – Heat release and smoke production measurement on cables during flame spread test – Test apparatus, procedures, results
CENELEC-EN 60079-0	Explosive atmospheres – part 0: equipment – general requirements
CENELEC-EN 60079-1	Explosive atmospheres – part 1: equipment protection by flameproof enclosures “d”
CENELEC-EN 60079-2	Explosive atmospheres – part 2: equipment protection by pressurized enclosure “p”
CENELEC-EN 60079-5	Explosive atmospheres – part 5: equipment protection by powder filling “q”
CENELEC-EN 60079-6	Explosive atmospheres – part 6: equipment protection by liquid immersion “o”
CENELEC-EN 60079-7	Explosive atmospheres – part 7: equipment protection by increased safety “e”
CENELEC-EN 60079-11	Explosive atmospheres – part 11: equipment protection by intrinsic safety “i”
CENELEC-EN 60079-13	Explosive atmospheres – part 13: equipment protection by pressurized room “p”
CENELEC-EN 60079-15	Explosive atmospheres – part 15: equipment protection by type of protection “n”
CENELEC-EN 60079-18	Explosive atmospheres – part 18: equipment protection by encapsulation “m”
CENELEC-EN 60079-25	Explosive atmospheres – part 25: intrinsically safe electrical systems
CENELEC-EN 60079-26	Explosive atmospheres – part 26: equipment with equipment protection level (EPL) a
CENELEC-EN 60079-27	Explosive atmospheres – part 27: fieldbus intrinsically safe concept (FISCO)
CENELEC-EN 60079-28	Explosive atmospheres – part 28: protection of equipment and transmission systems using optical radiation
CENELEC-EN 60079-29-1	Explosive atmospheres – part 29-1: gas detectors – performance requirements of detectors for flammable gases
CENELEC-EN 60079-29-4	Explosive atmospheres – part 29-4: gas detectors – performance requirements of open path detectors for flammable gases
CENELEC-EN 60079-30-1	Explosive atmospheres – part 30-1: electrical resistance trace heating – general and testing requirements
CENELEC-EN 60079-31	Explosive atmospheres – part 31: equipment dust ignition protection by enclosure “t”
CENELEC-EN 60079-33	Explosive atmospheres – part 33: equipment protection by special protection ‘S’
CENELEC-EN 60079-35-1	Explosive atmospheres – part 35-1: caplights for use in mines susceptible to firedamp – general requirements – construction and testing in relation to the risk of explosion
CENELEC-EN 60079-35-2	Explosive atmospheres – part 35-2: caplights for use in mines susceptible to firedamp – performance and other safety-related matters

CENELEC-EN 60335-1	Household and similar electrical appliances – safety – part 1: general requirements
CENELEC-EN 60335-2-2	Household and similar electrical appliances – safety – part 2-2: particular requirements for vacuum cleaners and water-suction cleaning appliances
CENELEC-EN 60335-2-3	Household and similar electrical appliances – safety part 2-3: particular requirements for electric irons
CENELEC-EN 60335-2-8	Household and similar electrical appliances – safety – part 2-8: particular requirements for shavers, hair clippers and similar appliances
CENELEC-EN 60335-2-9	Household and similar electrical appliances – safety part 2-9: particular requirements for grills, toasters and similar portable cooking appliances
CENELEC-EN 60335-2-10	Household and similar electrical appliances safety part 2-10: particular requirements for floor treatment machines and wet scrubbing machines
CENELEC-EN 60335-2-12	Household and similar electrical appliances – safety part 2-12: particular requirements for warming plates and similar appliances
CENELEC-EN 60335-2-13	Household and similar electrical appliances – safety – part 2-13: particular requirements for deep fat fryers, frying pans and similar appliances
CENELEC-EN 60335-2-14	Household and similar electrical appliances – safety part 2-14: particular requirements for kitchen machines
CENELEC-EN 60335-2-15	Household and similar electrical appliances safety part 2-15: particular requirements for appliances for heating liquids
CENELEC-EN 60335-2-16	Household and similar electrical appliances safety part 2-16: particular requirements for food waste disposers
CENELEC-EN 60335-2-17	Household and similar electrical appliances – safety – part 2-17: particular requirements for blankets, pads, clothing and similar flexible heating appliances
CENELEC-EN 60335-2-23	Household and similar electrical appliances – safety part 2-23: particular requirements for appliances for skin or hair care
CENELEC-EN 60335-2-24	Household and similar electrical appliances – safety – part 2-24: particular requirements for refrigerating appliances, ice-cream appliances and ice makers
CENELEC-EN 60335-2-26	Household and similar electrical appliances safety part 2-26: particular requirements for clocks
CENELEC-EN 60335-2-28	Household and similar electrical appliances safety part 2-28: particular requirements for sewing machines
CENELEC-EN 60335-2-30	Household and similar electrical appliances – safety – part 2-30: particular requirements for room heaters
CENELEC-EN 60335-2-31	Household and similar electrical appliances – safety – part 2-31: particular requirements for range hoods and other cooking fume extractors
CENELEC-EN 60335-2-32	Household and similar electrical appliances ± safety part 2-32: particular requirements for massage appliances
CENELEC-EN 60335-2-34	Household and similar electrical appliances – safety part 2-34: particular requirements for motor-compressors
CENELEC-EN 60335-2-35	Household and similar electrical appliances – safety – part 2-35: particular requirements for instantaneous water heaters

CENELEC-EN 60335-2-36	Household and similar electrical appliances safety part 2-36: particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements
CENELEC-EN 60335-2-37	Household and similar electrical appliances – safety part 2-37: particular requirements for commercial electric deep fat fryers
CENELEC-EN 60335-2-38	Household and similar electrical appliances safety part 2-38: particular requirements for commercial electric griddles and griddle grills incorporating corrigendum
CENELEC-EN 60335-2-40	Household and similar electrical appliances – safety part 2-40: particular requirements for electrical heat pumps, air-conditioners and dehumidifiers
CENELEC-EN 60335-2-42	Household and similar electrical appliances – safety part 2-42: particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens
CENELEC-EN 60335-2-43	Household and similar electrical appliances – safety – part 2-43: particular requirements for clothes dryers and towel rails
CENELEC-EN 60335-2-44	Household and similar electrical appliances – safety part 2-44: particular requirements for ironers
CENELEC-EN 60335-2-45	Household and similar electrical appliances – safety part 2-45: particular requirements for portable heating tools and similar appliances
CENELEC-EN 60335-2-49	Household and similar electrical appliances – safety part 2-49: particular requirements for commercial electric appliances for keeping food and crockery warm
CENELEC-EN 60335-2-50	Safety of household and similar electrical appliances part 2-50: particular requirements for commercial electric bains-marie
CENELEC-EN 60335-2-52	Household and similar electrical appliances safety part 2-52: particular requirements for oral hygiene appliances
CENELEC-EN 60335-2-54	Household and similar electrical appliances – safety – part 2-54: particular requirements for surface-cleaning appliances for household use employing liquids or steam
CENELEC-EN 60335-2-55	Household and similar electrical appliances – safety part 2-55: particular requirements for electrical appliances for use with aquariums and garden ponds
CENELEC-EN 60335-2-60	Household and similar electrical appliances – safety part 2-60: particular requirements for whirlpool baths and whirlpool spas
CENELEC-EN 60335-2-64	Safety of household and similar electrical appliances part 2-64: particular requirements for commercial electric kitchen machine
CENELEC-EN 60335-2-67	Household and similar electrical appliances – safety – part 2-67: particular requirements for floor treatment machines for commercial use
CENELEC-EN 60335-2-68	Household and similar electrical appliances – safety – part 2-68: particular requirements for spray extraction machines, for commercial use
CENELEC-EN 60335-2-69	Household and similar electrical appliances – safety – part 2-69: particular requirements for wet and dry vacuum cleaners, including power brush for commercial use
CENELEC-EN 60335-2-71	Household and similar electrical appliances safety part 2-71: particular requirements for electrical heating appliances for breeding and rearing animals

CENELEC-EN 60335-2-72	Household and similar electrical appliances – safety – part 2-72: particular requirements for floor treatment machines with or without traction drive, for commercial use
CENELEC-EN 60335-2-74	Household and similar electrical appliances – safety part 2-74: particular requirements for portable immersion heaters
CENELEC-EN 60335-2-75	Household and similar electrical appliances – safety part 2-75: particular requirements for commercial dispensing appliances and vending machines
CENELEC-EN 60335-2-76	Household and similar electrical appliances – safety part 2-76: particular requirements for electric fence energizers
CENELEC-EN 60335-2-77	Safety of household and similar appliances – part 2-77: particular requirements for pedestrian-controlled walk-behind electrically powered lawn mowers
CENELEC-EN 60335-2-78	Household and similar electrical appliances – safety part 2-78: particular requirements for outdoor barbecues
CENELEC-EN 60335-2-79	Household and similar electrical appliances – safety – part 2-79: particular requirements for high pressure cleaners and steam cleaners
CENELEC-EN 60335-2-80	Household and similar electrical appliances – safety part 2-80: particular requirements for fans
CENELEC-EN 60335-2-81	Household and similar electrical appliances – safety part 2-81: particular requirements for foot warmers and heating mats
CENELEC-EN 60335-2-84	Household and similar electrical appliances safety part 2-84: particular requirements for toilets
CENELEC-EN 60335-2-85	Household and similar electrical appliances – safety part 2-85: particular requirements for fabric steamers
CENELEC-EN 60335-2-89	Household and similar electrical appliances – safety – part 2-89: particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor
CENELEC-EN 60335-2-95	Household and similar electrical appliances – safety – part 2-95: particular requirements for drives for vertically moving garage doors for residential use
CENELEC-EN 60335-2-97	Household and similar electrical appliances – safety part 2-97: particular requirements for drives for rolling shutters, awnings, blinds and similar equipment
CENELEC-EN 60335-2-101	Household and similar electrical appliances – safety part 2-101: particular requirements for vaporizers
CENELEC-EN60335-2-102	Household and similar electrical appliances – Safety – Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections
CENELEC-EN 60529	Degrees of protection provided by enclosures (IP code)
CENELEC-EN 61241-2-2	Electrical apparatus for use in the presence of combustible dust part 2: test methods section 2: method for determining the electrical resistivity of dust in layers
CENELEC-EN 61241-4	Electrical apparatus for use in the presence of combustible dust part 4: type of protection “pd”
CENELEC-EN 61241-11	Electrical apparatus for use in the presence of combustible dust part 11: protection by intrinsic safety “id”

CENELEC-EN 62013-1	Caplights for use in mines susceptible to firedamp Part 1: General requirements – construction and testing in relation to the risk of explosion
CENELEC-EN IEC 60079-0	Explosive atmospheres – part 0: equipment – general requirements
CENELEC-EN IEC 60079-11	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”
CENELEC-EN IEC 60079-15	Explosive atmospheres – part 15: equipment protection by type of protection “n”
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IEC 61010-1 Edition 3.1 2017-01	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 61010-2-011	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-011: Particular requirements for refrigerating equipment
IEC 61010-2-012	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment
IEC 61010-2-020	Safety requirements for electrical equipment for measurement, control, and laboratory use – part 2-020: particular requirements for laboratory centrifuges
IEC 61010-2-030	Safety requirements for electrical equipment for measurement, control, and laboratory use – part 2-030: particular requirements for testing and measuring circuits
IEC 61010-031	Safety requirements for electrical equipment for measurement, control and laboratory use – part 031: safety requirements for hand-held probe assemblies for electrical measurement and test

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 61010-2-033	Safety requirements for electrical equipment for measurement, control, and laboratory use – part 2-033: particular requirements for hand-held multimeters and other meters, for domestic and professional use, capable of measuring mains voltage
IEC 61010-2-040	Safety requirements for electrical equipment for measurement, control, and laboratory use – part 2-040: particular requirements for sterilizers and washer-disinfectors used to treat medical materials
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 61010-2-061	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-061: particular requirements for laboratory atomic spectrometers with thermal atomization and ionization
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 61010-2-091	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-091: particular requirements for cabinet x-ray systems
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 61010-2-201	Safety requirements for electrical equipment for measurement, control and laboratory use – part 2-201: particular requirements for control equipment
IEC 61241-0	Explosive atmospheres – part 0: equipment – general requirements
IEC 61241-1	Electrical apparatus for use in the presence of combustible dust part 1: protection by enclosures "td"
IEC 61241-1-1	Electrical apparatus for use in the presence of combustible dust part 1-1 – electrical apparatus protected by enclosures and surface temperature limitation – specification for apparatus
IEC 61241-2-1	Electrical apparatus for use in the presence of combustible dust part 2: test methods – section 1: methods for determining the minimum ignition temperatures of dust
IEC 61241-2-2	Electrical apparatus for use in the presence of combustible dust part 2: test methods – section 2: method for determining the electrical resistivity of dust in layers
IEC 61241-2-3	Electrical apparatus for use in the presence of combustible dust part 2: test methods – section 3: method for determining minimum ignition energy of dust/air mixtures
IEC 61241-4	Electrical apparatus for use in the presence of combustible dust part 4: type of protection "pd"
IEC 61241-11	Explosive atmospheres – part 11: equipment protection by intrinsic safety "id"
IEC 61241-18	Explosive atmospheres – part 18:

IEC 61537	Cable management – cable tray systems and cable ladder systems
IEC 61558-1	Safety of Power Transformers, Power Supplies, Reactors and Similar Products – Part 1: General Requirements and Tests
IEC 61558-2-1	Safety of power transformers, power supplies, reactors and similar products – Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications
IEC 61558-2-2	Safety of Power Transformers, Power Supply Units and Similar – Part 2-2: Particular Requirements for Control Transformers
IEC 61558-2-4	Safety of transformers, reactors, power supply units and combinations thereof – Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers for general applications
IEC 61558-2-6	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V – Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers for general applications
IEC 61558-2-16	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V – Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units
IEC 61779-1	Electrical apparatus for the detection and measurement of flammable gases – part 1: general requirements and test methods
IEC 61779-4	Electrical apparatus for the detection and measurement of flammable gases – part 4: performance requirements for group II apparatus indicating up to 100% lower explosive limit
IEC 61779-5	Electrical apparatus for the detection and measurement of flammable gases – part 5: performance requirements for group II apparatus indicating a volume fraction up to 100 % gas
IEC 61851-1	Electric vehicle conductive charging system – Part 1: General requirements
IEC 61869-3	Instrument transformers – Part 3: Additional requirements for inductive voltage transformers
IEC 61951-2	Secondary cells and batteries containing alkaline or other non- acid electrolytes – portable sealed rechargeable single cells – part 2: nickel-metal hydride
IEC 61960	Secondary cells and batteries containing alkaline or other non-acid electrolytes – secondary lithium cells and batteries for portable applications
IEC 61984	Connectors- safety requirements and tests
IEC 62040-1	Uninterruptible power systems (UPS) – part 1: general and safety requirements for UPS
IEC 62086-1	Electrical apparatus for explosive gas atmospheres – Electrical resistance trace heating – Part 1: General and testing requirements
IEC 62109-1	Safety of power converters for use in photovoltaic power systems Part 1: General requirements
IEC 62109-2	Safety of power converters for use in photovoltaic power systems Part 2: Particular requirements for inverters

IEC 62109-3	Safety of power converters for use in photovoltaic power systems – Part 3: Particular requirements for electronic devices in combination with photovoltaic elements
IEC 62116	Utility-interconnected photovoltaic inverters – Test procedure of islanding prevention measures
IEC 62133	Secondary cells and batteries containing alkaline or other non-acid electrolytes – safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications
IEC 62196-1	Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 1: General requirements
IEC 62196-2	Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories
IEC 62196-3	Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 3: Dimensional compatibility and interchangeability requirements for d.c. and a.c./d.c. pin and contact-tube vehicle couplers
IEC 62281	Safety of primary and secondary lithium cells and batteries during transport
IEC 62599-1	Alarm systems – part 1: environmental test methods
IEC 62599-2	Alarm systems – part 2: electromagnetic compatibility – immunity requirements for components of fire and security alarm systems
IEC 62619	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries, for use in industrial applications
IEC 62642-1	Alarm systems – intrusion and hold-up systems – part 1: system requirements
IEC 62642-2-2	Alarm systems – intrusion and hold-up systems – part 2-2: intrusion detectors – passive infrared detectors
IEC 62642-2-3	Alarm systems – intrusion and hold-up systems – part 2-3: intrusion detectors – microwave detector
IEC 62642-2-4	Alarm systems – intrusion and hold-up systems – part 2-4: intrusion detectors – combined passive infrared / microwave detectors
IEC 62642-2-6	Alarm systems – intrusion and hold-up systems – part 2-6: intrusion detectors – opening contacts (magnetic)
IEC 62642-3	Alarm systems – intrusion and hold-up systems – part 3: control and indicating equipment
IEC 62642-4	Alarm systems – intrusion and hold-up systems – part 4: warning devices
IEC 62642-5-3	Alarm systems – intrusion and hold-up systems – part 5-3: interconnections – requirements for equipment using radio frequency techniques
IEC 62642-6	Alarm systems – intrusion and hold-up systems – part 6: power supplies
IEC 62752	In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)
IEC 62841-1	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – safety – part 1: general requirements

IEC 62841-2-2	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – safety – part 2-2: particular requirements for hand-held screwdrivers and impact wrenches
IEC 62841-2-4	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – safety – part 2-4: particular requirements for hand-held sanders and polishers other than disc type
IEC 62841-2-5	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – safety – part 2-5: particular requirements for hand-held circular saws
IEC 62841-2-9	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – safety – part 2-9: particular requirements for hand-held tappers and threaders
IEC 62841-3-1	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – safety – part 3-1: particular requirements for transportable table saws
IEC 62841-3-6	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – safety – part 3-6: particular requirements for transportable diamond drills with liquid system
IEC 62841-3-9	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – safety – part 3-9: particular requirements for transportable mitre saws
IEC 80601-2-60	Medical electrical equipment – part 2-60: particular requirements for the basic safety and essential performance of dental equipment
IEC 80601-2-61	Medical electrical equipment – part 2-61: particular requirements for basic safety and essential performance of pulse oximeter equipment
IEC/EN 60127-1	Miniature fuses – Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links
IEC/EN 60127-2	Miniature fuses – Part 2: Cartridge fuse-links]
IEC/EN 60127-3	Miniature fuses – Part 3: Sub-miniature fuse-links
IEC/EN 60127-4	Miniature fuses Part 4: Universal modular fuse-links (UMF) – Through-hole and surface mount types
IEC/EN 60269-1	Low-voltage fuses – Part 1: General requirements
IEC/EN 60269-4	Low-voltage fuses – Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices
IEC/EN 60269-6	Low-voltage fuses – Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems
IEC/EN 60598-1	Luminaires – Part 1: General requirements and tests
IEC/EN 60598-2-1	Luminaires Part 2 Particular requirements Section One – Fixed general purpose luminaires
IEC/EN 60598-2-2	Luminaires – Part 2-2: Particular requirements – Recessed luminaires – Edition 3
IEC/EN 60598-2-3	Luminaires – Part 2-3: Particular requirements – Luminaires for road and street lighting
IEC/EN 60598-2-4	Luminaires – Part 2-4: Particular requirements – Portable general purpose luminaires

IEC/EN 60598-2-5	Luminaires – Part 2-5: Particular requirements – Floodlights IEC/EN 60598-2-8
IEC/EN 60598-2-8	Luminaires - Part 2-8: Particular requirements - Handlamps
IEC/EN 60598-2-13	Luminaires – Part 2-13: Particular requirements – Ground recessed luminaires
IEC EN 60839-11	Alarm and electronic security systems – part 11-1: electronic access control systems - system and components requirements
IEC/EN 60947-1	Low-voltage switchgear and controlgear – Part 1: General rules IEC/EN 60947-4-2
IEC/EN 60947-5-1	Low-voltage switchgear and controlgear – Part 5-1: Control circuit devices and switching elements – Electromechanical control circuit devices
IEC/EN 60947-5-2	Low-voltage switchgear and controlgear – Part 5-2: Control circuit devices and switching elements – Proximity switches
IEC/EN 60947-5-5	Low-voltage switchgear and controlgear – Part 5-5: Control circuit devices and switching elements – Electrical emergency stop device with mechanical latching function
IEC/EN 60947-7-1	Low-voltage switchgear and controlgear – Part 7-1: Ancillary equipment – Terminal blocks for copper conductors
IEC/EN 60947-7-2	Low-voltage switchgear and controlgear – Part 7-2: Ancillary equipment – Protective conductor terminal blocks for copper conductors
IEC/EN 60947-7-3	Low-voltage switchgear and controlgear – Part 7-3: Ancillary equipment – Safety requirements for fuse terminal blocks
IEC/EN 60947-7-4	Low-voltage switchgear and controlgear – Part 7-4 Ancillary equipment – PCB terminal blocks for copper conductors
IEC/EN 61347-1	Lamp controlgear – Part 1: General and safety requirements
IEC/EN 61347-2-1	Lamp controlgear – Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaire
IEC/EN 61347-2-13	Lamp controlgear – Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
IEC/EN 62031	LED modules for general lighting – Safety specifications
IEC/EN 62368-1	Audio/video, information and communication technology equipment – Part 1: Safety requirements
IEC/EN 62368-3	Audio/video, information and communication technology equipment – Part 3: Safety aspects for DC power transfer through communication cables and ports
IEC/IEEE 60079-30-1	Explosive atmospheres – part 30-1: electrical resistance trace heating – general and testing requirements
IEC TR 62368-2	Audio/video, information and communication technology equipment – Part 2: Explanatory information related to IEC 62368-1:2018
IEC TS 60079-40	Explosive atmospheres – Part 40: requirements for process sealing between flammable process fluids and electrical systems
IEC TS 60079-46	Explosive atmospheres – Part 46: Equipment assemblies
IEEE 383	Standard for qualifying electric cables and splices for nuclear facilities
IEEE 1202	Standard for flame-propagation testing of wire & cable
IEEE 1547	Standard for interconnecting distributed resources with electric power systems
IEEE 1547.1	Standard conformance test procedures for

IEEE 1625	Standard for rechargeable batteries for multi-cell mobile computing devices
IEEE 1725	Standard for rechargeable batteries for cellular telephones
ISO 80079-36	Explosive atmospheres – Part 36: Non-electrical equipment for use in explosive atmospheres – Basic methods and requirements
ISO 80079-37	Explosive atmospheres – Part 37: Non-electrical equipment for use in explosive atmospheres – Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "h"
IEC 80601-2-30 Edition 1.1 2013-07	Medical electrical equipment – Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers
ISO 80601-2-55	Medical Electrical Equipment – Part 2-55: Particular Requirements For The Basic Safety And Essential Performance Of Respiratory Gas Monitors
ISO 80601-2-56	Medical electrical equipment – part 2-56: particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement
ISO/IEC 80079-38	Explosive atmospheres – Part 38: Equipment and components in explosive atmospheres in underground mines
NFPA 496	Standard for purged and pressurized enclosures for electrical equipment
NFPA 1936	Standard on powered rescue tools
NSF/ANSI 456	Vaccine Storage
UL 38	Standard for Manual Signaling Boxes for Fire Alarm Systems
UL 217	Standard for Smoke Alarms
UL 250	Standard for safety for household refrigerators and freezers
UL 268	Smoke Detectors for Fire Alarm Systems
UL 268B	Outline of Investigation for Video Image Smoke Detectors
UL 412	Standard for safety for refrigeration unit coolers
UL 464	Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories
UL 471	Standard for safety for commercial refrigerators and freezers
UL 521	Standard for Heat Detectors for Fire Protective Signaling Systems
UL 705	Standard for Safety for Power Ventilators
UL 864	Standard for Control Units and Accessories for Fire Alarm Systems
UL 921	Standard for safety for Commercial dishwashers
UL 924	Standard for safety for emergency lighting and power equipment
UL 984	Standard for safety for hermetic refrigerant motor-compressors
UL 985	Standard for Control Units and Accessories for Fire Alarm Systems
UL 1017	Standard for safety for vacuum cleaners, blower cleaners, and household floor finishing machines
UL 1206	Standard for safety for electric commercial clothes-washing equipment
UL 1240	Standard for safety for electric commercial clothes-drying equipment
UL 1424	Standard for safety for cables for power-limited fire-alarm circuits
UL 1480	Speakers for Fire Alarm and Signaling Systems, Including Accessories

UL 1581	Standard for safety for reference standard for electrical wires, cables, and flexible cords
UL 1638	Visible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories
UL 1642	Standard for safety for lithium batteries
UL 1971	Standard for Signaling Devices for the Hearing Impaired
UL 1973	Batteries for Use in Stationary, Vehicle Auxiliary Power and Light Electric Rail (LER) Applications
UL 1989	Standby Batteries
UL 1995	Standard for safety for heating and cooling equipment
UL 1996	Standard for safety for electric duct heaters
UL 2054	Standard for safety for household and commercial batteries
UL 2158	Standard for safety for electric clothes dryers
UL 2271	Batteries for Use in Light Electric Vehicle (LEV) Applications
UL 2272	Electrical Systems for Personal E-Mobility Devices
UL 2580	Batteries for Use in Electric Vehicles
UL 4200A	Products incorporating button batteries or coin cell batteries
UL 9540	Energy Storage Systems and Equipment [Exception – Clause 35.4 Seismic Environments]
UN ST/SG/AC.10/11	Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria. Clause 38.3 Lithium metal and lithium ion batteries
WHO/PQS/E003/FZ01-VP.2	Vaccine freezer or combined vaccine and water-pack freezer: compression-cycle
Energy Star	
ENERGY STAR Program Requirements Product Specification for Uninterruptible Power Supplies	Uniform Test Method for Measuring the Energy Consumption of Battery Chargers incorporated in 10 CFR Part 430 Subpart B, Appendix Y, Section 4: Testing Requirements for Uninterruptible Power Supplies Energy Star Test Method for Uninterruptible Power Supplies, Rev. Dec 2017
ENERGY STAR Program Requirements Product Specification for Residential Dishwashers	10 CFR 430 Subpart B, Appendix C1: Uniform Test Method for Measuring the Energy Consumption of Dishwashers
ENERGY STAR Program Requirements Product Specification for Audio/Video	ENERGY STAR Test Method for Audio/Video
ENERGY STAR Program Requirements Product Specification for Computers	ENERGY STAR Draft Test Method for Computers
ENERGY STAR Program Requirements	ENERGY STAR Test Method for Imaging Equipment

Product Specification for Imaging Equipment	
ENERGY STAR Program Requirements Product Specification for Small Network Equipment	ENERGY STAR Test Method for Small Network Equipment
ENERGY STAR Program Requirements Product Specification for Telephony	ENERGY STAR Test Method for Telephony
ENERGY STAR Program Requirements Product Specification for Computer Servers	ENERGY STAR Test Method for Computer Servers
ENERGY STAR Program Requirements Product Specification for Data Center Storage	ENERGY STAR Test Method for Data Center Storage Equipment
ENERGY STAR Program Requirements Product Specification for Electric Vehicle Supply Equipment	ENERGY STAR Level 1 and Level 2 Electric Vehicle Supply Equipment Test Method (Rev. Apr-2017) ENERGY STAR DC-output Electric Vehicle Supply Equipment Test Method (Rev. Mar-2021) ENERGY STAR Displays Test Method (Rev. Sep-2015) Section 6.7.5.2 of Consumer Electronics Association (CEA) 2037- A, Determination of Television Set Power Consumption
ENERGY STAR Program Requirements Product Specification for Set-top Boxes	ENERGY STAR Test Method for Set-top Boxes CTA-2043, “Set-top Box (STB) Power Measurement”
ENERGY STAR Program Requirements Product Specification for Boilers	10 CFR Part 430 Subpart B, Appendix N: Uniform Test Method for Measuring the Energy Consumption of Furnaces and Boilers
ENERGY STAR Program Requirements Product Specification for Furnaces	10 CFR Part 430 Subpart B, Appendix N: Uniform Test Method for Measuring the Energy Consumption of Furnaces and Boilers
ENERGY STAR Program Requirements Product Specification for EPS (sunset 12/31/10)	Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies (August 11, 2004) 10 CFR 430, Subpart B, Appendix Z: Uniform Test Method for Measuring the Energy Consumption of External Power Supplies
Proposed Test Protocol	IPS Generalized Internal Power Supply Efficiency Test Protocol, rev. 6.4.2
ENERGY STAR Program Requirements	10 CFR Part 430 Subpart B, Appendix J2: Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers

Product Specification for Clothes Washers	
ENERGY STAR Program Requirements Product Specification for Commercial Water Heaters	10 CFR Part 431.106 Uniform Test Method for the Measurement Of Energy Efficiency of Commercial Water Heating Equipment 10 CFR Part 431.106 Subpart G, Appendix E: Uniform Test Method for the Measurement of Energy Efficiency of Commercial Heat Pump Water Heaters
ENERGY STAR Program Requirements Product Specification for Commercial Ovens	ASTM F1496 Test method for performance of convection ovens ASTM F2093 Test method for performance of rack ovens ASTM F2861 Test Method for Enhanced Performance of Combination Oven in Various Modes
ENERGY STAR Program Requirements Product Specification for Commercial Electric Cooktops	ASTM F1521 Test methods for performance of range tops
ENERGY STAR Program Requirements Product Specification for Residential Electric Cooking Products	10 CFR 430, Subpart B, Appendix I1: Uniform Test Method for Measuring the Energy Consumption of Conventional Cooking Products
ANSI/ASHRAE 124	Methods of testing for rating combination space-heating and water-heating appliances (ANSI approved)
ASTM F1275	Test method for performance of griddles
ASTM F1361	Test method for the performance of open deep fat fryers
ASTM F1484	Test method for the performance of steam cookers
ASTM F1496	Test method for performance of convection ovens
ASTM F1521	Test methods for performance of range tops
ASTM F1605	Test method for the performance of double sided griddles
ASTM F1696	Test method for energy performance of single-rack hot water sanitizing, door-type commercial dishwashing machines and NSF/ANSI 3-2007, commercial warewashing equipment
ASTM F1920	Test method for energy performance of rack conveyor, hot water sanitizing, commercial dishwashing machines and NSF/ANSI 3-2007, commercial warewashing equipment
ASTM F2093	Test method for performance of rack ovens
ASTM F2140	Test method for the performance of hot food holding cabinets
ASTM F2144	Test Method for Performance of Large Open Vat Fryers
ASTM F2861	Standard Test Method for Enhanced Performance of Combination Oven in Various Modes
EN 50563	External a.c. - d.c. and a.c. - a.c. power supplies – determination of no-load power and average efficiency of active modes
EN 50564	Electrical and electronic household and office equipment - Measurement of low power consumption

EN/IEC 62301	Household electrical appliances – measurement of standby power
EN/IEC 62018	Power consumption of information technology equipment – Measurement methods
IEC 62040-3	Uninterruptible power systems (UPS) – part 3: method of specifying the performance and test requirements
EN/IEC 62087	Audio, video and related equipment – Determination of power consumption – part 1: general
IEC 62623	Desktop and notebook computers – measurement of energy consumption
Fire	
16 CFR 1632	Standard for the flammability of mattresses and mattress pads (FF 4–72 amended)
16 CFR 1633	Standard for the flammability (open flame) of mattress sets
ABNT NBR 6125	Method of test for automatic sprinklers – fire protection
ABNT NBR 6135	Specification for automatic sprinklers – fire protection
ABNT NBR 6479	Determination of resistance to fire – Doors and sealants
ABNT NBR 15647	Requirements and test methods for pipes and connections – chlorinated poly vinyl chloride (CPVC) – fire protection systems for automatic sprinklers
ABNT NBR 15648	Installation procedures for pipes and connections – chlorinated poly vinyl chloride (CPVC) – fire protection systems for automatic sprinklers
AMCA 500-D	Laboratory methods of testing dampers for rating
AMCA 500-L	Laboratory methods of testing louvers for rating
ANSI/AWWA C906	Polyethylene (PE) Pressure Pipe and Fittings, 4 in. Through 63 in. (100 mm Through 1,650 mm), for Waterworks
ANSI/CAN/UL/ULC 1384	Water-Based Automatic Extinguisher Units
ANSI/CAN/UL/ULC 2127	Inert Gas Clean Agent Extinguishing System Units
ANSI/CAN/UL/ULC 2166	Halocarbon Clean Agent Extinguishing System Units
ANSI/NFPA 18	Wetting Agents
ANSI/NFPA 18A	Water Additives for Fire Control and Vapor Mitigation
ANSI/NFPA 1964	Spray Nozzles
ANSI/NFPA 1965	Fire Hose Appliances
ANSI/SPRI ES-1	Wind design standard for edge systems used with low slope roofing systems
ANSI/UL 8	Water Based Agent Fire Extinguishers
ANSI/UL 10C	Positive Pressure Fire Tests of Door Assemblies
ANSI/UL 10D	Fire Tests of Fire Protective Curtain Assemblies
ANSI/UL 19	Lined Fire Hose and Hose Assemblies
ANSI/UL 92	Fire Extinguisher and Booster Hose
ANSI/UL 154	Carbon-Dioxide Fire Extinguishers
ANSI/UL 181A	Closure Systems for Use with Rigid Air Ducts and Air Connectors

ANSI/UL 181B	Closure Systems for Use with Flexible Air Ducts and Air Connectors
ANSI/UL 203	Pipe Hanger Equipment for Fire Protection Service
ANSI/UL 203A	Sway Brace Devices for Sprinkler System Piping
ANSI/UL 218	Fire Pump Controllers
ANSI/UL 219	Lined Fire Hose for Interior Standpipes
ANSI/UL 299	Dry Chemical Fire Extinguishers
ANSI/UL 300	Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment
ANSI/UL 385	Play Pipes for Water Supply Testing in Fire Protection Service
ANSI/UL 401	Portable Spray Hose Nozzles for Fire-Protection Service
ANSI/UL 405	Fire Department Connections
ANSI/UL 448A	Flexible Couplings and Connecting Shafts for Stationary Fire Pumps
ANSI/UL 448B	Residential Fire Pumps Intended for One- and Two-Family Dwellings and Manufactured Homes
ANSI/UL 448C	Stationary, Rotary-Type, Positive-Displacement Pumps for Fire-Protection Service
ANSI/UL 626	Water Fire Extinguishers
ANSI/UL 668	Hose Valves for Fire-Protection Service
ANSI/UL 711	Rating and Testing of Fire Extinguishers
ANSI/UL 789	Indicator Posts for Fire-Protection Service
ANSI/UL 1004-5	Standard for Fire Pump Motors
ANSI/UL 1093	Halogenated Agent Fire Extinguishers
ANSI/UL 1254	Pre-Engineered Dry Chemical Extinguishing System Units
ANSI/UL 1468	Direct Acting Pressure Reducing and Pressure Restricting Valves
ANSI/UL 1478A	Pressure Relief Valves for Sprinkler Systems
ANSI/UL 1486	Quick Opening Devices for Dry Pipe Valves for Fire Protection Service
ANSI/UL 1739	Pilot-Operated Pressure-Control Valves for Fire Protection Service
ANSI/UL 1821	Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Service
ANSI/UL 2043	Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Space
ANSI/UL 2129	Halocarbon Clean Agent Fire Extinguishers
ANSI/UL 2335	Fire Tests of Storage Pallets
ANSI/UL 2351	Spray Nozzles for Fire-Protection Service
ANSI/UL 2368	Fire Exposure Testing of Rigid Nonmetallic and Composite Nonmetallic Intermediate Bulk Containers for Combustible Liquids
ANSI/UL 2443	Flexible Sprinkler Hose with Fittings for Fire Protection Service
ANSI/UL 2775	Fixed Condensed Aerosol Extinguishing System Units
DS/EN 15276-1:2019	Fixed firefighting systems - Condensed Aerosol extinguishing Systems - Part 1
AS 1530.1	Methods for fire tests on building materials, components and structures - combustibility test for materials)

AS 1530.4	Methods for fire tests on building materials, components and structures - fire-resistance tests for elements of construction
AS 3786	Smoke alarms using scattered light, transmitted light or ionization
ASFP YELLOW BOOK	Fire protection for structural steel in buildings
ASME B16.1	Cast Iron Pipe Flanges and Flanged Fittings, Classes 25, 125 and 250
ASME B16.3	Malleable Iron Threaded Fittings, Classes 150 and 300
ASME B16.4	Gray Iron Threaded Fittings, Classes 125 and 250
ASME B16.5	Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24
ASME B16.11	Forged Fittings, Socket-Welding and Threaded
ASME B16.14	Ferrous Pipe Plugs, Bushings, and Locknuts with Pipe Threads
ASME B16.15	Cast Bronze Threaded Fittings, Classes 125, and 250
ASME B16.39	Malleable Iron Threaded Pipe Unions, Classes 150, 250, and 300
ASTM D228/D228M	Standard test methods for sampling, testing, and analysis of asphalt roll roofing, cap sheets, and shingles used in roofing and waterproofing
ASTM D312/D312M	Standard specification for asphalt used in roofing
ASTM D450	Standard specification for coal-tar pitch used in roofing, dampproofing, and waterproofing
ASTM D1621	Standard test method for compressive properties of rigid cellular plastics
ASTM D1929	Standard test method for determining ignition temperature of plastics
ASTM D2898	Standard practice for accelerated weathering of fire-retardant-treated wood for fire testing
ASTM D3161/D3161M	Standard test method for wind-resistance of steep slope roofing products (fan-induced method)
ASTM D3201/D3201M	Standard test method for hygroscopic properties of fire-retardant wood and wood-based products
ASTM D3345	Standard test method for laboratory evaluation of wood and other cellulosic materials for resistance to termites
ASTM D3462/D3462M	Standard specification for asphalt shingles made from glass felt and surfaced with mineral granules
ASTM D4869/D4869M	Standard specification for asphalt-saturated organic felt underlayment used in steep slope roofing
ASTM D7897	Standard Practice for Laboratory Soiling and Weathering of Roofing Materials to Simulate Effects of Natural Exposure on Solar Reflectance and Thermal Emittance
ASTM E84	Standard test method for surface burning characteristics of building materials
ASTM E96/E96M	Standard test methods for water vapor transmission of materials
ASTM E108	Standard test methods for fire tests of roof coverings
ASTM E119	Standard test methods for fire tests of building construction and materials
ASTM E136	Standard test method for behavior of materials in a vertical tube furnace at 750°C (Including Test Method Options A and B (ASTM E2652))
ASTM E648	Standard test method for critical radiant flux of floor-covering systems using a radiant heat energy source

ASTM E662	Standard test method for specific optical density of smoke generated by solid materials
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 E2307	Standard test method for determining fire resistance of perimeter fire barriers using intermediate-scale, multi-story test apparatus
ASTM E2652	Standard Test Method for Assessing Combustibility of Materials Using a Tube Furnace with a Cone-shaped Airflow Stabilizer, at 750°C
ASTM E3037	Standard Test Method for Measuring Relative Movement Capabilities of Through- Penetration Firestop Systems
ASTM F1476	Standard Specification for Performance of Gasketed Mechanical Couplings for Use in Piping Applications
ASTM F1548	Standard Specification for the Performance of Fittings for Use with Gasketed Mechanical Couplings Used in Piping Applications
AWWA C153/A21.53	Ductile-Iron Compact Fittings for Water Service
BS 476-20	Method for determination of the fire resistance of elements of construction (general principles)
BS 476-21	Methods for determination of the fire resistance of loadbearing elements of construction
BS 476-22	Method for determination of the fire resistance of non-loadbearing elements of construction
BS 476-23	Methods for determination of the contribution of components to the fire resistance of a structure
BS 476-24	Method for determination of the fire resistance of ventilation ducts
BS EN 179	Building hardware – emergency exit devices operated by a lever handle or push pad, for use on escape routes – requirements and test methods
BS EN 1125	Building hardware – panic exit devices operated by a horizontal bar, for use on escape routes – requirements and test methods
BS EN 1363-1	Fire resistance tests – general requirements
BS EN 1366-3	Fire resistance tests for service installations – penetration seals
BS EN 1366-4	Fire resistance tests for service installations – linear joint seals
BS EN 1634-1	Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware – fire resistance test for door and shutter assemblies and openable windows
BS EN 1634-2	Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware – fire resistance characterisation test for elements of building hardware
BS EN 1634-3	Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware – smoke control test for door and shutter assemblies
BS EN 10242	Threaded Pipe Fittings in Malleable Cast Iron

BS EN 12094-1	Fixed firefighting systems – components for gas extinguishing systems - requirements and test methods for electrical automatic control and delay devices
BS EN 12259-1	Fixed firefighting systems components for sprinkler and water spray systems part 1: sprinklers
BS EN 12259-2	Fixed firefighting systems components for sprinkler and water spray systems part 2: wet alarm valve assemblies
BS EN 12259-3	Fixed firefighting systems components for sprinkler and water spray systems part 3: dry alarm valve assemblies
BS EN 12259-14	Fixed firefighting systems - Components for sprinkler and water spray systems - Part 14: Sprinklers for residential applications
BS EN 13204	Double acting hydraulic rescue tools for fire and rescue service use – safety and performance requirements
BS EN 13381-4	Test methods for determining the contribution to the fire resistance of structural members – applied passive protection products to steel members
BS EN 13381-6	Test methods for determining the contribution to the fire resistance of structural members – applied protection to concrete filled hollow steel columns
BS EN 13381-8	Test methods for determining the contribution to the fire resistance of structural members – applied reactive protection to steel members
BS EN 13381-9	Test methods for determining the contribution to the fire resistance of structural members – applied fire protection systems to steel beams with web openings
BS EN 14384	Pillar fire hydrants
BSI BS 143 & 1256	Threaded Pipe Fittings in Malleable Cast Iron and Cast Copper Alloy
CAN/ULC S101	Standard methods of fire endurance tests of building construction and materials
CAN/ULC S103	Standard specification for “tin-clad” fire doors meeting the performance required by CAN/ULC-S104
CAN/ULC S104	Standard method for fire tests of door assemblies
CAN/ULC S105	Standard specification for fire door frames meeting the performance required by CAN/ULC-S104
CAN/ULC S106	Standard method for fire tests of window and glass block assemblies
CAN/ULC S107	Methods of fire tests of roof coverings
CAN/ULC S112	Standard method of firer test of fire damper assemblies
CAN/ULC S112.1	Standard for leakage rated dampers for use in smoke control systems
CAN/ULC S115	Standard method of fire tests of firestop systems
CAN/ULC S121	Preliminary standard for sliding hardware for standard, horizontally mounted tin-clad fire doors
CAN/ULC S132	Standard method of tests for emergency exit and emergency fire exit hardware
CAN/ULC S133	Standard method of tests for door closers intended for use with swinging doors
CSA C22.2 No. 263	Fire Pump Controllers
EN 12269-14	Fixed firefighting systems - Components for sprinkler and water spray systems - Part 14: Sprinklers for residential applications

EN 13501-3	Fire classification of construction products and building elements – part 3: classification using data from fire resistance tests on products and elements used in building service installations: fire resisting ducts and fire dampers
EN 17084	Railway applications – Fire protection on railway vehicles – Toxicity test of materials and components (Method 1 only – ISO 5659-2)
EN 17446	Fire extinguishing systems in commercial kitchens - System design, documentation, and test requirements
EN 45545-2	European railway standard for safety – Limited to: ISO 5658-2 ISO 5660-1 ISO 9239-1 ISO 1182 ISO 4589-2
IEC 60695-11-5	Fire hazard testing – Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance
IEC 60965-2-10	Fire hazard testing – Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure
IEC 60965-2-11	Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products (GWEPT)
IEC 60965-2-12	Fire hazard testing – Part 2-12: Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials
IEC 60965-2-13	Fire hazard testing – Part 2-13: Glowing/hot-wire based test methods – Glow-wire ignition temperature (GWIT) test method for materials
IMO Assembly Resolution A.800(19)	Revised Guidelines for Approval of Sprinkler Systems Equivalent to That Referred to in SOLAS Regulation II-2/12
ISO 49	Malleable Cast Iron Fittings Threaded to ISO 7-1
ISO 834-1	Fire-resistance tests – elements of building construction – part 1: general requirements
ISO 834-2	Fire-resistance tests – elements of building construction – part 2: Guidance on measuring uniformity of furnace exposure on samples
ISO 834-3	Fire-resistance tests – elements of building construction – part 3: Commentary on test method and guide to the application of the outputs from the fire-resistance test
ISO 834-4	Fire-resistance tests – elements of building construction – part 4: Specific requirements for loadbearing vertical separating elements
ISO 834-5	Fire-resistance tests – elements of building construction – part 5: Specific requirements for loadbearing horizontal separating elements
ISO 834-6	Fire-resistance tests – elements of building construction – part 6: Specific requirements for beams
ISO 834-7	Fire-resistance tests – elements of building construction – part 7: Specific requirements for columns
ISO 834-8	Fire-resistance tests – elements of building construction – part 8: Specific requirements for non-loadbearing vertical separating elements
ISO 834-9	Fire-resistance tests – elements of building construction – part 9: Specific requirements for non-loadbearing ceiling elements

ISO 834-10	Fire-resistance tests – elements of building construction – part 10: Specific requirements to determine the contribution of applied fire protection materials to structural steel elements
ISO 834-11	Fire-resistance tests – elements of building construction – part 11: Specific requirements for the assessment of fire protection to structural steel elements
ISO 834-12	Fire-resistance tests – elements of building construction – part 12: Specific requirements for separating elements evaluated on less than full scale furnaces
ISO 834-13	Fire-resistance tests – elements of building construction – part 13: Requirements for the testing and assessment of applied fire protection to steel beams with web openings
ISO 834-14	Fire-resistance tests – elements of building construction – part 14: Requirements for the testing and assessment of applied fire protection to solid steel bar
ISO 1182	Reaction to fire tests for products – non-combustibility test
ISO 1716	Reaction to fire tests for products – determination of the gross heat of combustion (calorific value)
ISO 3008	Fire-resistance tests – door and shutter assemblies
ISO 3009	Fire-resistance tests – elements of building construction – glazed elements
ISO 4589-2	Plastics – determination of burning behaviour by oxygen index – part 2: ambient-temperature test
ISO 4589-3	Plastics – determination of burning behaviour by oxygen index – part 3: elevated-temperature test
ISO 5658-2	Reaction to fire tests – spread of flame – part 2: lateral spread on building and transport products in vertical configuration
ISO 5659-2	Plastics – smoke generation – part 2: determination of optical density by a single-chamber test
ISO 5660-1	Reaction-to-fire tests – heat release, smoke production and mass loss rate – part 1: heat release rate (cone calorimeter method) and smoke production rate (dynamic measurement
ISO 6944	Fire containment – elements of building construction – part 1: ventilation ducts
ISO 9239-1	Reaction to fire tests for floorings – part 1: Determination of the burning behaviour using a radiant heat source
ISO 10294-1	Fire resistance tests – fire dampers for air distribution systems – part 1: test method
JIS C 3521	Flame test method for flame retardant sheath of telecommunication cables
MODUK-DEF STAN 02-711	Determination of the smoke index of the products of combustion from small specimens of materials
MODUK-DEF STAN 02-713	Determination of the toxicity index of the products of combustion from small specimens of mate
NFPA 12	Standard on carbon dioxide extinguishing systems
NFPA 72	National fire alarm and signaling code
NFPA 252	Standard methods of fire tests of door assemblies
NFPA 257	Standard on fire test for window and glass block assemblies
NFPA 259	Standard test method for potential heat of building materials

NFPA 262	Standard method of test for flame travel and smoke of wires and cables for use in air-handling spaces
NFPA 275	Standard method of fire tests for the evaluation of thermal barriers
NFPA 285	Standard fire test method for evaluation of fire propagation characteristics of exterior non-load-bearing wall assemblies containing combustible components
NFPA 286	Standard methods of fire tests for evaluating contribution of wall and ceiling interior finish to room fire growth
UL 9	Standard for safety for fire tests of window assemblies
UL 10B	Standard for safety for fire tests of door assemblies
UL 33	Standard for safety for heat responsive links for fire-protection service
UL 47	Semiautomatic Fire Hose Storage Devices
UL 55A	Standard for safety for materials for built-up roof coverings
UL 72	Standard for safety for tests for fire resistance of record protection equipment
UL 139	Outline of Investigation for High-Expansion-Foam Extinguishing System Equipment
UL 155	Standard for safety for tests for fire resistance of vault and file room doors
UL 162	Foam Equipment and Liquid Concentrates
UL 181	Standard for safety for factory-made air ducts and air connector
UL 194	Gasketed Joints for Ductile-Iron Pipe and Fittings for Fire Protection Service
UL 199B	Outline of Investigation for Control Cabinets for Automatic Sprinkler Systems Used for Protection of Commercial Cooking Equipment
UL 213	Rubber Gasketed Fittings for Fire-Protection Service
UL 213C	Grooved and Plain End Fittings
UL 246	Standard for safety for hydrants for fire-protection service
UL 246C	Outline of Investigation for Wet Barrel Fire Hydrants for Oil Platforms
UL 262	Standard for safety for gate valves for fire protection service
UL 263	Standard for safety for fire tests of building construction and materials
UL 299C	Outline of Investigation for Fire Extinguishing Dry Chemical for Special Applications
UL 393	Indicating Pressure Gauges for Fire Protection Service
UL 448	Standard for safety for centrifugal stationary pumps for fire-protection service
UL 448D	Outline of Investigation for Fire Pump, Driver and Controller Assembly Rating Compatibility
UL 515A	Outline of Investigation for Electrical Resistance Tracing Heating and Associated Controls for Use in Sprinkler and Standpipe Systems
UL 555	Standard for safety for fire dampers
UL 555C	Standard for safety for ceiling dampers
UL 555S	Standard for safety for smoke dampers
UL 580	Standard for safety for tests for uplift resistance of roof assemblies
UL 723	Standard for safety for test for surface burning characteristics of building materials

UL 790	Standard for safety for standard test methods for fire tests of roof coverings
UL 852	Metallic Sprinkler Pipe For Fire Protection Service
UL 860	Pipe Unions for Flammable and Combustible Fluids and Fire-Protection Service
UL 1058	Halogenated Agent Extinguishing System Units
UL 1091B	Outline of Investigation for System Control Ball Valves for Fire Protection Service
UL 1247	Diesel Engines for Driving Stationary Fire Pumps
UL 1256	Standard for safety for fire test of roof deck constructions
UL 1285	Pipe and Couplings, Polyvinyl Chloride (PVC), and Oriented Polyvinyl Chloride (PVCO) for Underground Fire Service
UL 1469	Strength of Body and Hydraulic Pressure Loss Testing of Backflow Special Check Valves
UL 1474	Adjustable Drop Nipples for Sprinkler Systems
UL 1479	Standard for safety for fire tests of through-penetration firestops
UL 1666	Standard for safety for test for flame propagation height of electrical and optical-fiber cables installed vertically in shafts
UL 1685	Standard for safety for vertical-tray fire-propagation and smoke-release test for electrical and optical-fiber cables
UL 1709	Standard for safety for rapid rise fire tests of protection materials for structural steel
UL 1713	Pressure Pipe and Couplings, Glass Fiber-Reinforced, for Underground Fire Service
UL 1715	Standard for safety for fire test of interior finish material
UL 1767	Standard for safety early-suppression fast-response sprinklers
UL 1897	Standard for safety uplift tests for roof covering systems
UL 1994	Luminous Egress Path Marking Systems
UL 2079	Standard for safety tests for fire resistance of building joint systems
UL 2167	Water Mist Nozzles for Fire Protection Service
UL 2221	Standard for safety tests of fire resistive grease duct enclosure assemblies
UL 2573	Outline of Investigation for Automatic Air Release and Air/Vacuum Valves for Fire Protection Service
UL 2581	Outline of Investigation for Hydraulic Surge Suppressors for Water Based Fire Protection Systems
UL 2581A	Outline of Investigation for Expansion Chambers for Water Based Fire Protection Systems
UL 2901	Outline of Investigation for Antifreeze Solutions for Use in Fire Sprinkler Systems
UL 2987	Outline of Investigation for Steel Sprinkler Pipe Corrosion Indicators
UL 63345	Outline of Investigation for Buoyant Media for Protection Against Full Surface Fires in Fixed Flammable or Combustible Liquid Tanks or Repositories
UL 67377	Outline of Investigation for Oxygen Reduction Fire Protection System Units
ULC/CAN4-S106	Fire tests of window and glass block assemblies

ULC/CAN4-S505	Standard for fusible links for fire protection service
ULC/CAN4-S507	Standard for water fire extinguishers
UL Subject 7	Outline of Investigation for Pump Tank Extinguishers
UL Subject 199C	Outline of Investigation for Plastic Escutcheons for Sprinklers
UL Subject 199D	Outline of Investigation for Guards for Sprinklers
UL Subject 199E	Outline of Investigation for Fire Testing of Sprinklers and Water Spray Nozzles for Protection of Deep Fat Fryers
UL Subject 258	Outline of Investigation for Shutoff Valves for Trim and Drain Purposes
UL Subject 260A	Outline of Investigation for Air Pressure Maintenance Devices
UL Subject 299D	Outline of Investigation for Dry Chemical Extinguishers for Residential Cooking Equipment
UL Subject 300A	Outline of Investigation for Extinguishing System Units for Residential Range Top Cooking Surfaces
UL Subject 321	Outline of Investigation for Pipeline Strainers
UL Subject 327	Outline of Investigation for Turbine Type Flow Meters
UL Subject 327A	Outline of Investigation for Inferential Type Residential Water
UL Subject 327B	Outline of Investigation for Ultrasonic and Magnetic Type Water Flow Meters
UL Subject 693	Outline of Investigation for Excess Pressure Pumps for Wet Pipe Sprinkler Systems
UL Subject 711A	Outline of Investigation for Fire Test Method for Portable Hand-Held Extinguishers Intended for Use on Residential Cooking Equipment
UL Subject 1091A	Outline of Investigation for Butterfly Valve Indicator Posts for Fire Protection Service
UL Subject 1630	Outline of Investigation for Residential Hose Cabinets Flow Meters
UL Subject 2432	Outline of Investigation for Dry System Water Delivery Time Calculation Programs
Heating/Cooling	
ANSI Z21.1	Household cooking gas appliances
ANSI Z21.1a	Addenda 1 for ANSI-Z21.1, household cooking gas appliances
ANSI Z21.5.1	Gas clothes dryers – volume 1, type 1 clothes dryers
ANSI Z21.5.2	Gas clothes dryers, volume II, type 2 clothes dryers
ANSI Z21.5.2a	Addenda 1 to ANSI Z21.5.2, gas clothes dryers – volume II, type 2 clothes dryers
ANSI Z21.5.2b	Addendum 2 to ANSI-Z21.5.2, gas clothes dryers – volume II – type 2 clothes dryers
ANSI Z21.8	Installation of domestic gas conversion burners
ANSI Z21.9	Domestic gas hot plates and laundry stoves
ANSI Z21.10.1	Gas water heaters – volume 1, storage water heaters with input ratings of 75,000 btu per hour or less
ANSI Z21.10.3	Gas water heaters – volume III, storage water heaters, with input ratings above 75,000 btu per hour, circulating and instantaneous
ANSI Z21.50	Vented gas fireplaces

ANSI Z21.50a	Addenda 1 to ANSI Z21.50, vented gas fireplaces
ANSI Z21.56	Gas-fired pool heaters
ANSI Z21.56a	Addenda 1 to ANSI Z21.56a, gas-fired pool heaters
ANSI Z21.60	Decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.60a	Addenda 1 To ANSI-Z21.60, decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.60b	Addenda 2 To ANSI-Z21.60, decorative gas appliances for installation in solid-fuel burning fireplaces
ANSI Z21.61	Gas-fired toilets
ANSI Z21.64b	Addenda 2 to ANSI Z21.64, direct vent central furnaces
ANSI Z21.66	Automatic damper devices for use with gas-fired appliances
ANSI Z21.66a	Addenda 1 to ANSI Z21.66, automatic damper devices for use with gas-fired appliances
ANSI Z21.66b	Addenda 2 to ANSI Z21.66, automatic damper devices for use with gas-fired appliances
ANSI Z21.67a	Addenda 1 to ANSI Z21.67, gas water heaters
ANSI Z21.67b	Addenda 2 to ANSI Z21.67, gas water heaters
ANSI Z21.68a	Addenda 1 to ANSI Z21.68, thermally actuated automatic vent damper devices for use with gas-fired appliances
ANSI Z21.68b	Addenda 2 to ANSI Z21.68, thermally actuated automatic vent damper devices for use with gas-fired appliances
ANSI Z21.71	Automatic intermittent pilot ignition systems for field installation
ANSI Z83.7	Gas-fired construction heaters
ANSI Z83.7a	Addenda 1 to ANSI Z83.7, gas-fired construction heaters
ANSI Z83.7b	Addenda 2 to ANSI Z83.7, gas-fired construction heaters
ANSI Z83.8	Gas unit heaters
ANSI Z83.8a	Addenda 1 to ANSI Z83.8, gas unit heaters
ANSI Z83.10	Separated Combustion System Central Furnaces
ANSI Z83.11	Gas food service equipment – ranges and unit broilers
ANSI/CAN/UL/ULC 1316	Standard for safety for fibre reinforced underground tanks for flammable and combustible liquids
ANSI/CAN/UL/ULC 1389	Standard for safety for plant oil extraction equipment for installation and use in ordinary (unclassified) locations and hazardous (classified) locations
ANSI/UL 6	Standard for safety electrical rigid metal conduit - steel
ANSI/UL 21	Standard for safety for LP-gas hose
ANSI/UL 25	Standard for safety for meters for flammable and combustible liquids and LP-gas
ANSI/UL 58	Standard for Safety for steel underground tanks for flammable and combustible liquids
ANSI/UL 80	Standard for safety for steel tanks for oil-burner fuels and other combustible liquids
ANSI/UL 132	Standard for safety for safety relief valves for anhydrous ammonia and LP-gas

ANSI/UL 144	Standard for safety for LP-gas regulators
ANSI/UL 147B	Standard for hand-held torches for fuel gases
ANSI/UL 441	Standard for safety for gas vents
ANSI/UL 525	Standard for safety for flame arresters
ANSI/UL 565	Standard for safety for liquid-level gauges for anhydrous ammonia and LP-gas
ANSI/UL 569	Standard for safety for pigtails and flexible hose connectors for LP-gas
ANSI/UL 641	Standard for safety for type L low-temperature venting systems
ANSI/UL 644	Standard for safety for container assemblies for LP-gas
ANSI/UL 726	Standard for safety for oil-fired boiler assemblies
ANSI/UL 727	Standard for safety for oil-fired central furnaces
ANSI/UL 729	Standard for safety for oil-fired floor furnaces
ANSI/UL 730	Standard for safety for oil-fired wall furnaces
ANSI/UL 731	Standard for safety for oil-fired unit heaters
ANSI/UL 842	Standard for safety for valves for flammable fluids
ANSI/UL 2227	Standard for safety for overfilling prevention devices
ANSI/UL 2586	Standard for safety for hose nozzle valves
AS/NZS 5263.0	Gas appliances Part 0: General requirements
AS/NZS 5263.1.9	Gas appliances Part 1.9: Gas laundry dryers
ASTM C1371	Standard test method for determination of emittance of materials near room temperature using portable emissometers
ASTM C1549	Standard test method for determination of solar reflectance near ambient temperature using a portable solar reflectometer
ASTM D226/D226M	Standard specification for asphalt-saturated organic felt used in roofing and waterproofing
EN 298	Automatic burner control systems for burners and appliances burning gaseous or liquid fuels
EN 12752-1	Gas-fired type B tumble dryers of nominal heat input not exceeding 20 kW, Safety
EN 12752-2	Gas-fired type B tumble dryers of nominal heat input not exceeding 20 kW, Rational use of energy
EN 1458-1	Domestic direct gas-fired tumble dryers of types B22D and B23D, of nominal heat input not exceeding 6 kW. Safety
EN 1458-2	Domestic direct gas-fired tumble dryers of types B22D and B23D, of nominal heat input not exceeding 6 kW. Rational use of energy
ICC ES AC311	Push-fit and press-connection fittings for potable water tube and radiant heating systems (test methods referenced in section 4)
IEC 60754-1	Test on gases evolved during combustion of materials from cables – part 1: determination of the halogen acid gas content
IEC 60754-2	Test on gases evolved during combustion of materials from cables – part 2: determination of acidity (by ph measurement) and conductivity
SASO 167	Methods of test for domestic cookers for use with liquefied petroleum gases
SASO 168	Gas heated catering equipment – part 1: general safety rules

SASO GSO 203	Gas heated catering equipment – part 1: general safety rules
UL 17	Standard for safety for vent or chimney connector dampers for oil-fired appliances
UL 51	Standard for safety for power-operated pumps and bypass valves for anhydrous ammonia, LP-gas, and propylene
UL 103	Standard for safety for factory-built chimneys for residential type and building heating appliances
UL 125	Standard for safety for flow control valves for anhydrous ammonia and LP-gas
UL 127	Standard for safety for factory-built fireplaces
UL 142	Standard for steel aboveground tanks for flammable and combustible liquids
UL 180	Standard for safety for liquid-level gauges for oil burner fuels and other combustible liquids
UL 207	Standard for safety for refrigerant-containing components and accessories, nonelectrical
UL 252	Standard for safety for compressed gas regulators
UL 343	Standard for safety for pumps for oil-burning appliances
UL 352	Standard for safety for constant-level oil valves
UL 353	Standard for safety for limit controls
UL 378	Standard for safety for draft equipment
UL 391	Standard for safety for solid-fuel and combination-fuel central and supplementary furnaces
UL 404	Standard for safety for gauges, indicating pressure, for compressed gas service
UL 429	Standard for safety for electrically operated valves
UL 536	Standard for safety for flexible metallic hose
UL 710	Standard for safety for exhaust hoods for commercial cooking equipment
UL 737	Standard for safety for fireplace stoves
UL 793	Standard for safety for automatically operated roof vents for smoke and heat
UL 795	Standard for safety for commercial-industrial gas heating equipment
UL 834	Standard for safety for heating, water supply, and power boilers – electric
UL 896	Standard for safety for oil-burning stoves
UL 900	Standard for safety for air filter units
UL 907	Standard for safety for fireplace accessories
UL 959	Standard for safety for medium heat appliance factory-built chimneys
UL 1046	Standard for safety for grease filters for exhaust ducts
UL 1349	Outline of investigation for LP-gas vaporizers
UL 1482	Standard for safety for solid-fuel type room heaters
UL 1746	Standard for safety for external corrosion protection systems for steel underground storage tanks
UL 2085	Standard for safety for protected aboveground tanks for flammable and combustible liquids
UL 2245	Standard for safety for below-grade vaults for flammable liquid storage tanks

Misc.	
ANSI/ISA 12.27.01	Requirements for process sealing between electrical systems and flammable or combustible process fluids
ASTM A653/A653M	Standard specification for steel sheet, zinc-coated (galvanized) or zinc-iron alloy-coated (galvannealed) by the hot-dip process
ASTM A681	Standard specification for tool steels alloy
ASTM G154	Standard practice for operating fluorescent ultraviolet (UV) lamp apparatus for exposure of nonmetallic materials
ASTM G155	Standard practice for operating xenon arc light apparatus for exposure of non-metallic materials
EN 1360	Rubber and plastic hoses and hose assemblies for measured fuel dispensing systems – specification
EN 1762	Rubber hoses and hose assemblies for liquefied petroleum gas, LPG (liquid or gaseous phase), and natural gas up to 25 bar (2,5 MPa) – specification
EN 13012	Petrol filling stations – construction and performance of automatic nozzles for use on fuel dispensers
EN 13483	Rubber and plastic hoses and hose assemblies with internal vapour recovery for measured fuel dispensing systems – specification
EN 13617-1	Petrol filling stations – part 1: safety requirements for construction and performance
EN 13617-2	Petrol filling stations – part 2: safety requirements for construction and performance of safe breaks for use on metering pumps and dispensers
EN 13617-3	Petrol filling stations – part 3: safety requirements for construction and performance of shear valves
EN 13617-4	Petrol filling stations – part 4: safety requirements for construction and performance of swivels for use on metering pumps and dispensers
EN 15268	Petrol filling stations – safety requirements for the construction of submersible pump assemblies
EN 16852	Flame arresters – performance requirements, test methods and limits for use
UL 1332	Standard for safety for organic coatings for steel enclosures for outdoor use electrical equipment
Physical	
CA SFM 12-7A-4	Decking
CCMC 07102	Technical guide for sheathing, membrane, breather-type
EN 13463-1	Non-electrical equipment for use in potentially explosive atmospheres – part 1: basic method and requirements
EN 13463-3	Non-electrical equipment for use in potentially explosive atmospheres – Part 3: Protection by flameproof enclosure "d"
EN 13463-5	Non-electrical equipment for use in potentially explosive atmospheres – part 5: protection by constructional safety “c”
EN 13463-6	Non-electrical equipment for use in potentially explosive atmospheres – part 6: protection by control of ignition source “b”
EN 13463-8	Non-electrical equipment for potentially explosive atmospheres – part 8: protection by liquid immersion “k”

ICC ES AC38	Water resistive barriers (test methods referenced in section 3)
ICC ES AC167	Fabric air dispersion systems (test methods referenced in section 4 (except 4.2 and 4.3))
Plumbing	
ANSI Z124.1.2	Plastic bathtub and shower units
ASME A112.18.1	Plumbing supply fittings
ASTM A53/A53M	Standard specification for pipe, steel, black and hot-dipped, zinc-coated, welded and seamless
AWWA C110	Ductile-iron and gray-iron fittings for water
AWWA C151	Ductile-iron pipe, centrifugally cast
BS EN 1716	Plastics piping systems – polyethylene (PE) tapping tees – test method for impact resistance of an assembled tapping tee
UL 157	Standard for safety for gaskets and seals
UL 193	Standard for safety for alarm valves for fire-protection service
UL 199	Standard for safety for automatic sprinklers for fire-protection service
UL 260	Standard for safety for dry pipe and deluge valves for fire- protection service
UL 312	Standard for safety for check valves for fire-protection service
UL 1091	Standard for safety for butterfly valves for fire-protection service
UL 1478	Standard for safety for fire pump relief valves
UL 1626	Standard for safety for residential sprinklers for fire-protection service
ULC/ORD C72	Tests for fire resistance of record protection equipment ULC/ORD C193
ULC/ORD C194	Guide for the investigation of gasketed joints for cast-iron pressure pipe and fittings
ULC/ORD C199	Automatic sprinklers for fire protection service
ULC/ORD C199P	Combustible piping for sprinkler systems
ULC/ORD C199S	Light wall steel pipes for sprinkler systems for fire protection service
ULC/ORD C260	Guide for the investigation of dry pipe, deluge and pre-action valves for fire protection
ULC/ORD C312	Check valves for fire protection service
ULC/ORD C789	Guide for the investigation of indicator posts for fire protection service
ULC/ORD C1091	Preliminary standard for butterfly valves for fire protection service
Structural	
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
Information Technology	
ETSI TS 103 701 V1.1.1 (2021-08)	Required test methodology for cybersecurity of consumer IoT devices in support of ETSI TS 103 645 /ETSI EN 303 645
ISASecure® Vulnerability Identification Testing	Required test method in support of: ISASecure® Component Security Assurance (CSA) Certification ISASecure® IIoT Component Security Assurance (ICSA) Certification ISASecure® System Security Assurance (SSA) Certification

(VIT): SSA-420 (IEC 62443-4-1 Sec 9.4)	

Satellite Location

Structural	
AAMA 1304	Voluntary Specification For Forced Entry Resistance Of Side-hinged Door Systems
AMCA 540	Test Method for Louvers Impacted by Wind Borne Debris
AMCA 550	Test Method for High Velocity Wind-Driven Rain Resistant Louvers
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	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 E1886	Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
ASTM E1996	Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes
ASTM F476	Standard Test Methods for Security of Swinging Door Assemblies
ASTM F588	Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact
ASTM F842	Standard Test Methods for Measuring the Forced Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact
ICC 500	ICC/NSSA Standard for the Design and Construction of Storm Shelters
IEC 62196-1	Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 1: General requirements
IEC 62196-2	Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories
IEC 62196-3	Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 3: Dimensional compatibility and

	interchangeability requirements for d.c. and a.c./d.c. pin and contact-tube vehicle couplers
TAS 201	Impact Test Procedures
TAS 202	Criteria for testing impact & nonimpact resistant building envelope components using uniform static air pressure
TAS 203	Criteria for testing products subject to cyclic wind pressure loading
UL 580	Standard for safety for tests uplift resistance of roof assemblies
UL 1897	Standard for safety for roof covering systems
Energy Star	
ENERGY STAR Program Requirements Product Specification for Electric Vehicle Supply Equipment	ENERGY STAR Level 1 and Level 2 Electric Vehicle Supply Equipment Test Method (Rev. Apr-2017) ENERGY STAR DC-output Electric Vehicle Supply Equipment Test Method (Rev. Mar-2021) ENERGY STAR Displays Test Method (Rev. Sep-2015) Section 6.7.5.2 of Consumer Electronics Association (CEA) 2037- A, Determination of Television Set Power Consumption

AMCA: Air Movement and Control Association International, Inc.

TAS: Florida Building Code – Testing Application Standard