

CERTIFICATE of ACCREDITATION

PRODUCT CERTIFICATION

The American National Standards Institute hereby affirms that

UL LLC

333 Pfingsten Road, Northbrook, IL 60062 , USA

ACCREDITATION ID# 0198

meets the ANSI accreditation program requirements and those set forth in
ISO/IEC 17065:2012 Conformity assessment -- Requirements for Bodies certifying products, processes and service

LIST OF CERTIFICATION SCHEME(S)

US Safety Scheme

Food Equipment Sanitation Scheme

Water Systems Scheme

Accredited Elevator/Escalator Certification Organization (AECO): Elevator systems, subsystems, components, and functions for
issuance of Certificates of Conformance and Marks in according to ASME A17.7/CSA B44.7

EPA WaterSense - WaterSense® Product Certification System

LIST OF STANDARDS

NSF/ANSI 60 : Drinking Water Treatment Chemicals - Health Effects

NSF/ANSI 61 : Drinking Water System Components - Health Effects

NSF/ANSI 372 : Drinking Water System Components - Lead Content

for programs within the following

SCOPE OF ACCREDITATION

(Please see the following pages for the scope of accreditation)



ANSI VICE PRESIDENT, ACCREDITATION SERVICES

2018-06-01

VALID THROUGH



PRODUCT CERTIFICATION

UL LLC

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SCOPE OF ACCREDITATION

GRANTED 2015-11-17:

11.040.10 Anaesthetic, respiratory and reanimation equipment
11.040.20 Transfusion, infusion and injection equipment
11.040.30 Surgical instruments and materials
11.040.50 Radiographic equipment
11.040.55 Diagnostic equipment
11.040.60 Therapy equipment
11.040.70 Ophthalmic equipment
11.040.99 Other medical equipment
11.060.20 Dental equipment
11.080.10 Sterilizing equipment
11.100.10 In vitro diagnostic test systems
11.100.30 Analysis of blood and urine
11.140 Hospital equipment
11.180.10 Aids and adaptation for moving
11.220 Veterinary medicine
13.020.01 Environment and environmental protection in general
13.030.40 Installations and equipment for waste disposal and treatment
13.030.50 Recycling
13.040.01 Air quality in general
13.040.35 Cleanrooms and associated controlled environments
13.110 Safety of machinery
13.140 Noise with respect to human beings
13.200 Accident and disaster control
13.220.01 Protection against fire in general
13.220.10 Fire-fighting
13.220.20 Fire protection
13.220.40 Ignitability and burning behaviour of materials and products
13.220.50 Fire-resistance of building materials and elements
13.230 Explosion protection
13.240 Protection against excessive pressure
13.260 Protection against electric shock. Live working
13.280 Radiation protection
13.300 Protection against dangerous goods
13.310 Protection against crime
13.320 Alarm and warning systems
13.340.10 Protective clothing

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13.340.20 Head protective equipment
13.340.40 Hand and arm protection
13.340.50 Leg and foot protection
13.340.60 Protection against falling and slipping
13.340.70 Lif jackets, buoyancy aids and flotation devices
17.140.01 Acoustic measurements and noise abatement in general
17.220.20 Measurement of electrical and magnetic quantities
19.020 Test conditions and procedures in general
19.060 Mechanical testing
19.080 Electrical and electronic testing
21.080 Hinges, eyelets and other articulated joints
21.180 Housings, enclosures, other machine parts
23.020.10 Stationary containers and tanks
23.040.10 Iron and steel pipes
23.040.15 Non-ferrous metal pipes
23.040.20 Plastics pipes
23.040.40 Metal fittings
23.040.45 Plastics fittings
23.040.50 Pipes and fittings of other materials
23.040.60 Flanges, couplings and joints
23.040.70 Hoses and hose assemblies
23.040.80 Seals for pipe and hose assemblies
23.040.99 Other pipeline component
23.060.10 Globe valves
23.060.20 Ball and plug valves
23.060.30 Gate valves
23.060.40 Pressure regulators
23.060.50 Check valves
23.060.99 Other valves
23.080 Pumps
23.100.01 Fluid power systems in general
23.100.10 Pumps and motors
23.100.40 Piping and couplings
23.100.50 Control components
23.100.60 Filters, seals and contamination of fluids
23.120 Ventilators. Fans. Air-conditioners

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GRANTED 2015-11-17:

23.140 Compressors and pneumatic machines
23.160 Vacuum technology
25.040.10 Machining centres
25.040.20 Numerically controlled machines
25.040.30 Industrial robots. Manipulators
25.040.40 Industrial process measurement and control
25.080.10 Lathes
25.080.20 Boring and milling machines
25.080.25 Planing machines
25.080.30 Broaching machines
25.080.40 Drilling machines
25.080.50 Grinding and polishing machines
25.080.60 Sawing machines
25.100.10 Turning tools
25.100.20 Milling tools
25.100.25 Tools for planing and broaching machines
25.100.30 Drills, countersinks, reamers
25.100.40 Saws
25.100.50 Taps and threading dies
25.120.10 Forging equipment. Presses. Shears
25.120.20 Rolling, extruding and drawing equipment
25.140.10 Pneumatic tools
25.140.20 Electric tools
25.140.99 Other hand-held tools
25.160.30 Welding equipment
25.180.10 Electric furnaces
25.220.99 Other treatments and coatings
27.020 Internal combustion engines
27.060.10 Liquid and solid fuel burners
27.060.20 Gas fuel burners
27.060.30 Boilers and heat exchangers
27.070 Fuel cells
27.080 Heat pumps
27.160 Solar energy engineering
27.180 Wind turbine energy systems
27.200 Refrigerating technology

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29.020 Electrical engineering in general
29.035.01 Insulating materials in general
29.035.10 Paper and board insulating materials
29.035.20 Plastics and rubber insulating materials
29.035.30 Glass and ceramic insulating materials
29.035.99 Other insulating materials
29.040.01 Insulating fluids in general
29.040.10 Insulating oils
29.040.99 Other insulating fluids
29.060.10 Wires
29.060.20 Cables
29.080.10 Insulators
29.080.20 Bushings
29.080.30 Insulation systems
29.100.01 Components for electrical equipment in general
29.100.10 Magnetic components
29.100.20 Electric and electromechanical components
29.100.99 Other components for electrical equipment
29.120.10 Conduits for electrical purposes
29.120.20 Connecting devices
29.120.30 Plugs, socket-outlets, couplers
29.120.40 Switches
29.120.50 Fuses and other overcurrent protection devices
29.120.70 Relays
29.120.99 Other electrical accessories
29.130.01 Switchgear and controlgear in general
29.130.10 High voltage switchgear and controlgear
29.130.20 Low voltage switchgear and controlgear
29.130.99 Other switchgear and controlgear
29.140.10 Lamp caps and holders
29.140.20 Incandescent lamps
29.140.30 Fluorescent lamps. Discharge lamps
29.140.40 Luminaires
29.140.50 Lighting installation systems
29.140.99 Other standards related to lamps
29.160.01 Rotating machinery in general

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GRANTED 2015-11-17:

29.160.10 Components for rotating machines
29.160.20 Generators
29.160.30 Motors
29.160.40 Generating sets
29.160.99 Other standards related to rotating machinery
29.180 Transformers. Reactors
29.200 Rectifiers. Converters. Stabilized power supply
29.220.10 Primary cells and batteries
29.220.20 Acid secondary cells and batteries
29.220.30 Alkaline secondary cells and batteries
29.220.99 Other cells and batteries
29.240.10 Substations. Surge arresters
29.240.30 Control equipment for electric power systems
29.260.10 Electrical installations for outdoor use
29.260.20 Electrical apparatus for explosive atmospheres
29.260.99 Other electrical equipment for working in special conditions
31.020 Electronic components in general
31.040.10 Fixed resistors
31.040.20 Potentiometers, variable resistors
31.040.30 Thermistors
31.040.99 Other resistors
31.060.10 Fixed capacitors
31.060.20 Ceramic and mica capacitors
31.060.30 Paper and plastics capacitors
31.060.40 Tantalum electrolytic capacitors
31.060.50 Aluminium electrolytic capacitors
31.060.60 Variable capacitors
31.060.70 Power capacitors
31.080.01 Semiconductor devices in general
31.080.10 Diodes
31.080.20 Thyristors
31.160 Electric filters
31.180 Printed circuits and boards
31.200 Integrated circuits. Microelectronics
31.220.10 Plug-and-socket devices. Connectors
31.220.20 Switches
31.260 Optoelectronics. Laser equipment

GRANTED 2015-11-17:

33.020 Telecommunications in general
33.040.01 Telecommunication systems in general
33.040.99 Other equipment for telecommunication systems
33.050.01 Telecommunication terminal equipment in general
33.050.10 Telephone equipment
33.050.20 Paging equipment
33.050.30 Equipment for telex, teletext, telefax
33.050.99 Other telecommunication terminal equipment
33.060.01 Radiocommunications in general
33.060.20 Receiving and transmitting equipment
33.060.30 Radio relay and fixed satellite communications systems
33.060.40 Cabled distribution systems
33.060.99 Other equipment for radiocommunications
33.080 Integrated Services Digital Network (ISDN)
33.100.10 Emission
33.100.20 Immunity
33.120.01 Components and accessories in general
33.120.10 Coaxial cables. Waveguides
33.120.20 Wires and symmetrical cables
33.120.99 Other components and accessories
33.160.10 Amplifiers
33.160.20 Radio receivers
33.160.25 Television receivers
33.160.30 Audio systems
33.160.40 Video systems
33.160.50 Accessories
33.160.60 Multimedia systems and teleconferencing equipment
33.160.99 Other audio, video and audiovisual equipment
33.180.10 Fibres and cables
33.180.20 Fibre optic interconnecting devices
35.020 Information technology (IT) in general
35.080 Software
35.160 Microprocessor systems
35.180 IT terminal and other peripheral equipment
35.200 Interface and interconnection equipment
35.220.20 Magnetic storage devices in general
35.220.30 Optical storage devices

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GRANTED 2015-11-17:

35.240.40 IT applications in banking
35.260 Office machines
37.040.10 Photographic equipment. Projectors
37.100.10 Reproduction equipment
37.100.20 Materials for graphic technology
39.040.20 Clocks
43.040.10 Electrical and electronic equipment
43.040.20 Lighting, signalling and warning devices
43.040.40 Braking systems
43.060.40 Fuel systems
43.060.50 Electrical and electronic equipment. Control systems
43.120 Electric road vehicles
43.180 Diagnostic, maintenance and test equipment
45.040 Materials and components for railway engineering
47.020.60 Electrical equipment of ships and of marine structures
47.020.90 Marine ventilation, air conditioning and heating systems
53.020.20 Cranes
53.020.99 Other lifting equipment
53.040.10 Conveyors
53.040.20 Components for conveyors
53.060 Industrial trucks
53.080 Storage equipment
55.040 Packaging materials and accessories
55.100 Bottles. Pots. Jars
55.120 Cans. Tins. Tubes
55.140 Barrels. Drums. Canisters
55.200 Packaging machinery
55.220 Storing. Warehousing
55.230 Distribution and vending machines
59.080.30 Textile fabrics
59.080.60 Textile floor coverings
61.080 Sewing machines and other equipment for the clothing industry
65.020.30 Animal husbandry and breeding
65.060.70 Horticultural equipment
65.060.80 Forestry equipment
65.100.10 Insecticides
67.020 Processes in the food industry
67.050 General methods of tests and analysis for food products
67.250 Materials and articles in contact with foodstuffs
67.260 Plants and equipment for the food industry

GRANTED 2015-11-17:

71.040.40 Chemical analysis
71.100.45 Refrigerants and antifreezes
71.100.80 Chemicals for purification of water
73.100.20 Ventilation, air-conditioning and illumination equipment
75.080 Petroleum products in general
75.100 Lubricants, industrial oils and related products
75.120 Hydraulic fluids
75.140 Waxes, bituminous materials and other petroleum products
75.160.20 Liquid fuels
75.180.01 Equipment for petroleum and natural gas industries in general
75.180.30 Volumetric equipment and measurements
75.200 Petroleum products and natural gas handling equipment
77.060 Corrosion of metals
79.060.10 Plywood
79.060.20 Fibre and particle boards
79.120.10 Woodworking machines
81.080 Refractories
83.060 Rubber
83.080.01 Plastics in general
83.080.10 Thermosetting materials
83.080.20 Thermoplastic materials
83.100 Cellular materials
83.120 Reinforced plastics
83.140.01 Rubber and plastics products in general
83.140.10 Films and sheets
83.140.20 Laminated sheets
83.140.30 Plastics pipes and fittings for non fluid use
83.140.40 Hoses
83.140.50 Seals
83.140.99 Other rubber and plastic products
83.180 Adhesives
87.020 Paint coating processes
87.040 Paints and varnishes
87.080 Inks. Printing inks
87.100 Paint coating equipment
91.060.10 Walls. Partitions. Façades
91.060.20 Roofs
91.060.30 Ceilings. Floors. Stairs
91.060.40 Chimneys, shafts, ducts
91.060.50 Doors and windows

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GRANTED 2015-11-17:

91.100.50 Binders, Sealing materials
91.100.60 Thermal and sound insulating materials
91.120.10 Thermal insulation of buildings
91.120.20 Acoustics in building, Sound insulation
91.120.40 Lightning protection
91.140.10 Central heating systems
91.140.30 Ventilation and air-conditioning systems
91.140.40 Gas supply systems
91.140.50 Electricity supply systems
91.140.60 Water supply systems
91.140.65 Water heating equipment
91.140.70 Sanitary installations
91.140.90 Lifts, Escalators
91.160.01 Lighting in general
91.160.10 Interior lighting
91.160.20 Exterior building lighting
91.190 Building accessories
91.220 Construction equipment
93.025 External water conveyance systems
93.030 External sewage systems
97.030 Domestic electrical appliances in general
97.040.01 Kitchen equipment in general
97.040.10 Kitchen furniture
97.040.20 Cooking ranges, working tables, ovens and similar appliances
97.040.30 Domestic refrigerating appliances
97.040.40 Dishwashers
97.040.50 Small kitchen appliances
97.040.60 Cookware, cutlery and flatware
97.040.99 Other kitchen equipment
97.060 Laundry appliances
97.080 Cleaning appliances

GRANTED 2015-11-17:

97.100.10 Electric heaters
97.100.20 Gas heaters
97.100.30 Solid fuel heaters
97.100.40 Liquid fuel heaters
97.120 Automatic controls for household use
97.130.10 Shelving
97.130.20 Commercial refrigerating appliances
97.140 Furniture
97.145 Ladders
97.150 Non-textile floor coverings
97.170 Body care equipment
97.180 Miscellaneous domestic and commercial equipment
97.195 Items of art and handicrafts
97.200.10 Theatre, stage and studio equipment
97.200.20 Musical instruments
97.200.50 Toys
97.220.30 Indoor sports equipment

GRANTED 2017-03-09:

29.060.01 Electrical wires and cables in general

GRANTED 2017-05-19:

EPA WaterSense®
- Tank-Type High-Efficiency Toilets
- High-Efficiency Lavatory Faucets
- High-Efficiency Flushing Urinals
- Flushometer-Valve Toilets
- Showerheads
- Commercial Pre-Rinse Spray Valves