



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Tecnolab del Lago Maggiore Srl
Via dell'industria 20, 28924, Verbania Fondotoce (VB) Italy

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Chemical, Mechanical and Electrical Testing
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:

October 5, 2019

Issue Date:

June 11, 2021

Expiration Date:

August 31, 2023

Accreditation No.:

89163

Certificate No.:

L21-392

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjilabs.com



Certificate of Accreditation: Supplement

Tecnolab del Lago Maggiore Srl

Via dell'industria 20, 28924, Verbania Fondotoce (VB) Italy
Contact Name: Michele Setaro Phone: 0323 586514

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical Test ^F	Steel	Determination of Chemical Composition	Optical Emission Spectrometry (S-OES) Non Official Method PP0040	Detectable Elements and Detection Limit: C 0.001 % Si 0.001 % Mn 0.001 % P 0.001 % S 0.002 % Cr 0.001 % Mo 0.001 % Ni 0.001 % Nb 0.001 % Al 0.001 % Cu 0.001 % Co 0.001 % B 0.001 % Ti 0.001 % V 0.001 % W 0.001 % Sn 0.001 % Pb 0.001 % Ca 0.001 % Bi 0.001 % As 0.001 % Sb 0.001 % Zn 0.001 % Zr 0.001 % Fe Rem.



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Chemical Test ^F	Copper and Copper Alloys	Determination of Chemical Composition	Optical Emission Spectrometry (S-OES) Non Official Method PP0040	Detectable Elements: Zn 0.005 % Pb 0.001 % Sn 0.002 % P 0.001 % Mn 0.001 % Fe 0.001 % Ni 0.001 % Al 0.001 % Cr 0.001 % S 0.001 % Be 0.001 % Cd 0.001 % Co 0.001 % Mg 0.001 % B 0.001 % Bi 0.001 % As 0.001 % Si 0.001 % Zr 0.005 % Sb 0.001 % Te 0.001 % Cu Rem.
Chemical Test ^F	Aluminum and Aluminum Alloys	Determination of Chemical Composition	Optical Emission Spectrometry (S-OES) Non Official Method PP0040	Detectable Elements: Si 0.001 % Fe 0.001 % Cu 0.001 % Mn 0.001 % Mg 0.001 % Cr 0.001 % Zn 0.001 % Ni 0.001 % Ti 0.001 % Pb 0.001 % Sn 0.001 % V 0.001 % Bi 0.001 % Bo 0.001 % Be 0.001 % Ca 0.001 % Cd 0.001 % Co 0.001 % Sr 0.001 % Zr 0.001 % Al Rem.



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Mechanical test ^F	Sanitary taps and fittings	Mechanical Properties	SASO 2655:2019 Clause 4.4 Clause 5.1 Clause 5.2 Clause 5.3 Excluded 5.3.3 and 5.3.7 Clause 5.4 Clause 5.5 Clause 5.6 Excluded 5.6.3.5 Clause 5.7 Clause 5.8 Clause 5.9 Clause 6	Cl. 4.4 PASS/FAIL Cl. 5.1 PASS/FAIL Cl. 5.2 PASS/FAIL Cl. 5.3 PASS/FAIL Cl. 5.4 [l/min] Cl. 5.5 [N] Cl. 5.6 PASS/FAIL Cl. 5.7 PASS/FAIL Cl. 5.8 PASS/FAIL Cl. 5.9 PASS/FAIL Cl. 6 PASS/FAIL
Electrical ^F	Household and similar electrical appliances – Safety –Part 1: General requirements;	Leakage current and touch current	IEC 60335-1:2020, Clause 13.2 and 16.2; EN 60335-1:2012; EN 60335-1:2012/A1/A2/A14:2019; EN 60335-1:2012/A13:2017; EN 60335-1:2012/A12:2017; EN 60335-1:2012/A11:2014; EN 60335-1:2012/AC:2014;	10 µA to 12 000 µA
	Safety of machinery - Electrical equipment of machines - Part 1: General requirements;		IEC 60204-1:2016; Clause 8.2.6; EN 60204-1:2018;	
	Audio/video, information and communication technology equipment Part 1: Safety requirements		IEC 62368-1:2018; Clause 5.7.2.1; IEC 62368-1:2018/COR1:2020; EN IEC 62368-1:2020; EN IEC 62368-1:2020/A11:2020; EN IEC 62368-1:2020/AC2020-05;	



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Electrical ^F	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	Leakage current and touch current	IEC 60601-1:2005; Clause 8.7.4.5 and 8.7.4.6; IEC 60601-1:2005/AMD1:2012; IEC 60601-1:2005/AMD2:2020; EN 60601-1:2006; EN 60601-1:2006/A11:2011; EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	10 μ A to 12 000 μ A
	Household and similar electrical appliances – Safety –Part 1: General requirements;	Electric strength	IEC 60335-1:2020; Clause 13.3 and 16.3 EN 60335-1:2012; EN 60335-1:2012/A1/A2/A14:2019; EN 60335-1:2012/A13:2017; EN 60335-1:2012/A12:2017; EN 60335-1:2012/A11:2014; EN 60335-1:2012/AC:2014;	0.1-5 kVac 50/60 Hz; 0.1-6 kVdc
	Safety of machinery - Electrical equipment of machines - Part 1: General requirements;		IEC 60204-1:2016; Clause 18.4; EN 60204-1:2018;	



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Electrical ^F	Luminaires - Part 1: General requirements and tests	Electric strength	IEC 60598-1:2014; Clause 10.2.2; IEC 60598-1:2014/COR1:2015; IEC 60598-1:2014/COR2:2015; IEC 60598-1:2014/ISH1:2016; IEC 60598-1:2014/COR3:2017; IEC 60598-1:2014/AMD1:2017; EN 60598-1:2015; EN 60598-1:2015/AC:2015; EN 60598-1:2015/AC:2016; EN 60598-1:2015/AC:2017; EN 60598-1:2015/A1:2018;	0.1-5 kVac 50/60 Hz; 0.1-6 kVdc
	Lamp controlgear - Part 1: General and safety requirements		IEC 61347-1:2015; Clause 12; IEC 61347-1:2015/AMD1:2017; EN 61347-1:2015; EN 61347-1:2015/A1:2021;	
	LED modules for general lighting - Safety specifications		IEC 62031:2018; Clause 11; EN IEC 62031:2020;	
	Audio/video, information and communication technology equipment Part 1: Safety requirements		IEC 62368-1:2018; Clause 5.4.9.1; IEC 62368-1:2018/COR1:2020; EN IEC 62368-1:2020; EN IEC 62368-1:2020/A11:2020; EN IEC 62368-1:2020/AC2020-05;	
	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements		IEC 61010-1:2010; Clause 6.7.2.2.1; IEC 61010-1:2010/AMD1:2016; EN 61010-1:2010; EN 61010-1:2010/A1:2019; EN 61010-1:2010/A1:2019/AC:2019;	
	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance		IEC 60601-1:2005; Clause 8.8.3; IEC 60601-1:2005/AMD1:2012; IEC 60601-1:2005/AMD2:2020; EN 60601-1:2006; EN 60601-1:2006/A11:2011; EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	



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Electrical ^F	Safety of machinery - Electrical equipment of machines - Part 1: General requirements;	Insulation resistance	IEC 60204-1:2016; Clause 18.3; EN 60204-1:2018;	2 MΩ to 45 000 MΩ
	Luminaires - Part 1: General requirements and tests		IEC 60598-1:2014; Clause 10.2.1; IEC 60598-1:2014/COR1:2015; IEC 60598-1:2014/COR2:2015; IEC 60598-1:2014/ISH1:2016; IEC 60598-1:2014/COR3:2017; IEC 60598-1:2014/AMD1:2017; EN 60598-1:2015; EN 60598-1:2015/AC:2015; EN 60598-1:2015/AC:2016; EN 60598-1:2015/AC:2017; EN 60598-1:2015/A1:2018;	
	Lamp controlgear - Part 1: General and safety requirements		IEC 61347-1:2015; Clause 11; IEC 61347-1:2015/AMD1:2017; EN 61347-1:2015; EN 61347-1:2015/A1:2021;	
	LED modules for general lighting - Safety specifications		IEC 62031:2018; Clause 10; EN IEC 62031:2020;	
	Audio/video, information and communication technology equipment Part 1: Safety requirements		IEC 62368-1:2018; Clause 5.4.10.3; IEC 62368-1:2018/COR1:2020; EN IEC 62368-1:2020; EN IEC 62368-1:2020/A11:2020; EN IEC 62368-1:2020/AC2020-05;	
	Household and similar electrical appliances – Safety –Part 1: General requirements;		Earthing conductor resistance	
Safety of machinery - Electrical equipment of machines - Part 1: General requirements;	EN 60204-1:2018; Clause 18.2.2; IEC 60204-1:2016;			



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Electrical ^F	Luminaires - Part 1: General requirements and tests	Earthing conductor resistance	IEC 60598-1:2014; Clause 7.2.3; IEC 60598-1:2014/COR1:2015; IEC 60598-1:2014/COR2:2015; IEC 60598-1:2014/ISH1:2016; IEC 60598-1:2014/COR3:2017; IEC 60598-1:2014/AMD1:2017; EN 60598-1:2015; EN 60598-1:2015/AC:2015; EN 60598-1:2015/AC:2016; EN 60598-1:2015/AC:2017; EN 60598-1:2015/A1:2018;	25 mΩ to 450 mΩ
	Lamp controlgear - Part 1: General and safety requirements		IEC 61347-1:2015; Clause 9.1; IEC 61347-1:2015/AMD1:2017; EN 61347-1:2015; EN 61347-1:2015/A1:2021;	
	LED modules for general lighting - Safety specifications		IEC 62031:2018; Clause 8; EN IEC 62031:2020;	
	Audi/video, information and communication technology equipment Part 1: Safety requirements		IEC 62368-1:2018; Clause 5.6.4.1; IEC 62368-1:2018/COR1:2020; EN IEC 62368-1:2020; EN IEC 62368-1:2020/A11:2020; EN IEC 62368-1:2020/AC2020-05;	
	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements		IEC 61010-1:2010; Clause 6.5.2.4; IEC 61010-1:2010/A1:2016; EN 61010-1:2010; EN 61010-1:2010/A1:2019; EN 61010-1:2010/A1:2019/AC:2019;	
	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance		IEC 60601-1:2005; Clause 8.6.4; IEC 60601-1:2005/AMD1:2012; IEC 60601-1:2005/AMD2:2020; EN 60601-1:2006; EN 60601-1:2006/A11:2011; EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	



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Electrical ^F	Household and similar electrical appliances – Safety –Part 1: General requirements	Power/current absorption	IEC 60335-1:2020; Clause 10; EN 60335-1:2012; EN 60335-1:2012/A1/A2/A14:2019; EN 60335-1:2012/A13:2017; EN 60335-1:2012/A12:2017; EN 60335-1:2012/A11:2014; EN 60335-1:2012/AC:2014;	15 V to 600 V 0.5 A to 20 A
	Safety of machinery - Electrical equipment of machines - Part 1: General requirements		IEC 60204-1:2016; Clause 4.3; EN 60204-1:2018;	
	Audi/video, information and communication technology equipment Part 1: Safety requirements		IEC 62368-1:2018; Annex B2.5; IEC 62368-1:2018/COR1:2020; EN IEC 62368-1:2020; EN IEC 62368-1:2020/A11:2020; EN IEC 62368-1:2020/AC2020-05;	
	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements		EN 61010-1:2010; Clause 5.1.3; EN 61010-1:2010/A1:2019; EN 61010-1:2010/A1:2019/AC:2019; IEC 61010-1:2010; IEC 61010-1:2010/A1:2016;	
	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance		IEC 60601-1:2005; Clause 4.11; IEC 60601-1:2005/AMD1:2012; IEC 60601-1:2005/AMD2:2020; EN 60601-1:2006; EN 60601-1:2006/A11:2011; EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	
Mechanical/ Electrical ^F	Audi/video, information and communication technology equipment Part 1: Safety requirements	Protection against access to live parts	IEC 62368-1:2018; Clause Annex V.1.3 Test probe V2; IEC 62368-1:2018/COR1:2020; EN IEC 62368-1:2020; EN IEC 62368-1:2020/A11:2020; EN IEC 62368-1:2020/AC2020-05;	



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Mechanical/ Electrical ^F	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Protection against access to live parts	IEC 61010-1:2010; Clause 6.2.2 IEC 61010-1:2010/A1:2016; EN 61010-1:2010; EN 61010-1:2010/A1:2019; EN 61010-1:2010/A1:2019/AC:2019;	15 V to 600 V 0.5 A to 20 A
	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance		IEC 60601-1:2005; Clause 5.9.2.1; IEC 60601-1:2005/AMD1:2012; IEC 60601-1:2005/AMD2:2020; EN 60601-1:2006; EN 60601-1:2006/A11:2011; EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	
	LED modules for general lighting - Safety specifications		IEC 62031:2018; Clause 9; EN IEC 62031:2020;	
Visual and documental analysis ^F	Safety of machinery – Electrical equipment of machines – Part 1: General requirements	1. Scope 18.2 Verification of conditions for protection by automatic disconnection of supply (only: 18.2.3)	EN 60204-1:2018; IEC 60204-1:2016;	Visual examination



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Visual and documental analysis ^F	Luminaires - Part 1: General requirements and tests	0.1 Scope 4. Construction (only: 4.4.1, 4.4.2, 4.4.3, 4.4.6, 4.4.9, 4.4.10, 4.7.5, 4.8, 4.10.1, 4.11.1, 4.11.2, 4.11.5, 4.14.4, 4.14.5, 4.19, 4.25, 4.27) 5. EXTERNAL AND INTERNAL WIRING (only: 5.2.9, 5.2.12, 5.2.18) 7. PROVISION FOR EARTHING (only: 7.2.10, 7.2.11) 14. SCREW TERMINALS (only: 14.4.3, 15.5.2.2.3, 15.6.3.2.5)	IEC 60598-1:2014; IEC 60598-1:2014/COR1:2015; IEC 60598-1:2014/COR2:2015; IEC 60598-1:2014/ISH1:2016; IEC 60598-1:2014/COR3:2017; IEC 60598-1:2014/AMD1:2017; EN 60598-1:2015; EN 60598-1:2015/AC:2015; EN 60598-1:2015/AC:2016; EN 60598-1:2015/AC:2017; EN 60598-1:2015/A1:2018;	Visual examination
	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	2.1 Scope 2.12 Protection against electric shock	IEC 60598-2-2: 2011; EN 60598-2-2:2012;	
	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	3.1 Scope 3.6 Construction (only: 3.6.4)	IEC 60598-2-3:2002; IEC 60598-2-3:2002/AMD1:2011; EN 60598-2-3:2003; EN 60598-2-3:2003/corrigendum Aug. 2005; EN 60598-2-3:2003/A1:2011;	



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Visual and documental analysis ^F	Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires	4.1 Scope 4.7 Construction (only: 4.7.1, 4.7.2, 4.7.4, 4.7.5, 4.7.7, 4.7.8) 4.11 External and internal wiring (only: 4.11.4)	IEC 60598-2-4:2017; EN 60598-2-4:2018;	Visual examination
	Luminaires - Part 2-5: Particular requirements - Floodlights	5.1 Scope	IEC 60598-2-5:2015; EN 60598-2-5: 2015;	
	Luminaires - Part 2-8: Particular requirements - Handlamps	8.1 Scope 8.11 External and internal wiring (only: 8.11.1, 8.11.3, 8.11.5)	IEC 60598-2-8:2013; EN 60598-2-8: 2013;	
	Luminaires - Part 2-20: Particular requirements - Lighting chains	20.1 Scope 20. Construction (only: 20.7.2)	IEC 60598-2-20: 2014; IEC 60598-2-20: 2014/COR1:2016; EN 60598-2-20: 2015; EN60598-2-20: 2015 /AC:2017;	
	Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting	22.1 Scope 22.6 Marking 22.7 Construction (only: 22.7.1, 22.7.6, 22.7.10, 22.11.1, 22.17.4)	IEC 60598-2-22:2014; IEC 60598-2-22:2014/COR1:2015; IEC 60598-2-22:2014/COR2:2016; IEC 60598-2-22:2014/AMD1:2017; EN 60598-2-22:2014; EN 60598-2-22:2014/AC:2015; EN 60598-2-22:2014/AC:2016-05; EN 60598-2-22:2014/AC:2016-09;	



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Visual and documental analysis ^F	Household and similar electrical appliances – Safety –Part 1: General requirements;	1. Scope 7. Marking and instructions (excluded: 7.12.3, 7.14) 22. Construction (only: 22.4, 22.10, 22.14, 22.15, 22.19, 22.21, 22.22, 22.23, 22.25, 22.28, 22.29, 22.33, 22.36, 22.38, 22.39, 22.40, 22.41, 22.44, 22.49, 22.51, 22.52, 22.56, 22.58, 22.60, 22.61) 23. Internal wiring (only: 23.1, 23.7, 23.8, 23.9) 24. Componentes (only: 24.2) 25. Supply connection and external flexible cords (only: 25.1, 25.5, 25.6, 25.9, 25.11, 25.12, 25.18, 25.19) 26. Terminals for external conductors (only: 26.7, 26.8) 27. Provision for earthing (only: 27.1) 28. Screws and connections (only: 28.2, 28.3)	IEC 60335-1:2020; EN 60335-1:2012; EN 60335-1:2012/A1/A2/A14:2019; EN 60335-1:2012/A13:2017; EN 60335-1:2012/A12:2017; EN 60335-1:2012/A11:2014; EN 60335-1:2012/AC:2014;	Visual examination



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Contact Name: Danilo Prina Phone: 0323 586514

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Visual and documental analysis ^F	Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons	1. Scope 22. Construction (only: 22.101, 22.103, 22.107) 24. Components (only: 24.101)	IEC 60335-2-3:2012 IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3:2016; EN 60335-2-3:2016/A1:2020;	Visual examination
	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids	1. Scope 22. Construction (only: 22.107, 22.112, 22.113, 22.114) 25. Supply connection and external flexible cords (only: 25.22)	IEC 60335-2-15:2012; IEC 60335-2-15:2012/AMD1:2016 CSV; IEC 60335-2-15:2012/AMD2:2018; EN 60335-2-15:2016; EN60335-2-15:2016/A11:2018;	
	Household and similar electrical appliances - Safety - Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances	1. Scope 7. Marking and instructions (only: 7.101) 22. Construction (only: 22.26, 22.101, 22.102, 22.103, 22.105, 22.110, 22.112, 22.113)	IEC 60335-2-17:2012; IEC 60335-2-17:2012/AMD1:2015; IEC 60335-2-17:2012/AMD2:2019; EN 60335-2-17:2013; EN 60335-2-17:2013/A11:2019; EN 60335-2-17:2013/A1:2020;	
	Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care	1. Scope 22. Construction (only: 22.103)	IEC 60335-2-23:2016; IEC 60335-2-23:2016/AMD1:2019; EN 60335-2-23:2003; EN60335-2-23:2003/A1:2008; EN60335-2-23:2003/A11:2010; EN60335-2-23:2003/A11:2010/AC:2012; EN60335-2-23:2003/A2:2015;	



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Contact Name: Michele Setaro Phone: 0323 586514

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Visual and documental analysis ^F	Household and similar electrical appliances - Safety - Part 2-30: Particular requirements for room heaters	1. Scope 22. Construction (only: 22.104, 22.108, 22.109) 24. Components (only: 24.101)	IEC 60335-2-30:2009; IEC 60335-2-30:2009/COR1:2014; IEC 60335-2-30:2009/AMD1:2016; IEC 60335-2-30:2009/AMD2:2021; EN 60335-2-30:2009; EN 60335-2-30:2009/A11:2012; EN 60335-2-30:2009/AC:2014; EN 60335-2-30:2009/A1:2020; EN 60335-2-30:2009/A12:2020;	Visual examination
	Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines	1. Scope 7. Marking and instructions (only: 7.12.101, 7.12.102) 22. Construction (only: 22.104, 22.106, 22.107, 22.108, 22.109, 22.111, 22.113) 23. Internal wiring (only: 23.101) 24. Components (only: 24.101)	IEC 60335-2-75:2012 IEC 60335-2-75:2012+AMD1:2015 CSV IEC 60335-2-75:2012/AMD1:2015 IEC 60335-2-75:2012/AMD2:2018 EN 60335-2-75:2004	
	Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans	1. Scope 6. Classification (only: 6.101) 22. Construction (only: 22.101, 22.102.3) 24 Components (only: 24.101) 27 Provision for earthing (only:27.3)	EN 60335-2-80:2003; EN 60335-2-80:2003/A1:2004; EN 60335-2-80:2003/A2: 2009; IEC 60335-2-80:2015;	
	Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections	1. Scope 22. Construction (only: 22.102) 24. Components (only: 24.101)	CEI EN 60335-2-102 (2019-09-01) IEC 60335-2-102:2017	



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Visual and documental analysis ^F	Household and similar electrical appliances Part 2: Particular requirements for multifunctional shower cabinets	1.Scope 22. Construction (only: 22.102)	IEC60335-2-105:2016; IEC60335-2-105:2016/AMD1:2019; EN 60335-2-105:2005; EN60335-2-105:2005/A1:2008; EN60335-2-105:2005/A1:2008/A11:2010; EN 60335-2-105:2005/A2:2020;	Visual examination
	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	1. Scope and object 5. Marking and documentation (only: 5.1.1, 5.1.2, 5.1.4, 5.1.5, 5.1.6, 5.1.7, 5.4) 6. Protection against electric shock (only: 6.5.2.2, 6.6.3, 6.9.2, 6.9.3, 6.11.3, 6.11.4.1) 7. Protection against mechanical HAZARDS (only: 7.3.2) 9. Protection against the spread of fire (9.6.2, 9.6.3) 11. Protection against HAZARDS from fluids and solid foreign objects (only: 11.5) 12. Protection against radiation, including laser sources, and against sonic and ultrasonic pressure (only: 12.2.2) 14. Components and subassemblies (only: 14.2.2)	IEC 61010-1:2010; IEC 61010-1:2010/A1:2016; EN 61010-1:2010; EN 61010-1:2010/A1:2019; EN 61010-1:2010/A1:2019/AC:2019;	



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Visual and documental analysis ^F	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	1. Scope and object 5. Marking and documentation (only: 5.1.5.101.2, 5.1.5.101.3)	IEC 61010-2-030:2017; EN 61010-2-030:2010;	Visual examination
	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	1.1 Scope 4. General requirements (only: 4.4, 4.5, 4.6, 4.10.1) 8. Protection against electrical HAZARDS from ME EQUIPMENT (only: 8.3, 8.6.5, 8.6.6, 8.6.7, 8.6.8, 8.11.3.1, 8.11.3.3) 9. Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS (only: 9.2.2.4.2) 10. Protection against unwanted and excessive radiation HAZARDS (only: 10.2, 10.5, 10.6, 10.7) 11. Protection against excessive temperatures and other HAZARDS (only: 11.1.4, 11.2.2.2, 11.2.2.3, 11.5, 11.6.8) 12. Accuracy of controls and instruments and protection against hazardous Outputs 13. HAZARDOUS SITUATIONS and fault conditions for ME EQUIPMENT (only: 13.2.6) 15. Construction of ME EQUIPMENT (only: 15.4.2.2, 15.4.3.2, 15.4.5) 16. ME SYSTEMS (only: 16.3, 16.4, 16.9.2.3) 17. Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS	IEC 60601-1:2005; IEC 60601-1:2005/AMD1:2012; IEC 60601-1:2005/AMD2:2020; EN 60601-1:2006; EN 60601-1:2006/A11:2011; EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	



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Visual and documental analysis ^F	Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability	1.1 Scope 4.2 Usability engineering process for me equipment	EN 60601-1-6:2010; EN 60601-1-6:2010/A1:2015; IEC 60601-1-6:2010; IEC 60601-1-6:2010/AMD1:2013; IEC 60601-1-6:2010/AMD2:2020;	Visual examination
	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	1.1 Scope 6. Classification of ME EQUIPMENT and ME SYSTEMS 7. ME EQUIPMENT identification, marking and documents (only: 7.4, 7.5) 10 Construction of ME EQUIPMENT (only:10.2, 10.3) 11. Protection against strangulation or asphyxiation 13. Additional requirements for ALARM SYSTEMS of ME EQUIPMENT and ME SYSTEMS (only: 13.1)	IEC 60601-1-11:2015; IEC 60601-1-11:2015+AMD1:2020 CSV; EN 60601-1-11:2015;	
	Medical electrical equipment - Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment	201.1 Scope, object and related standards 201.10.101 Ultrasonic energy 201.12 Accuracy of controls and instruments and protection against hazardous outputs (only: 201.12.1.102)	EN 60601-2-5:2015; IEC60601-2-5:2009;	



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Visual and documental analysis ^F	Audi/video, information and communication technology equipment Part 1: Safety requirements	1. Scope 6. Electrically-caused fire (only: 6.5.3) 7. Injury caused by hazardous substances (only: 7.3, 7.4, 7.5) 8. Mechanically-caused injury (only: 8.5.4.2.2.1) Annex F (only: F.2.3, F.3.1, F.3.2, F.3.3.8, F.3.4, F.3.6, F.4) Annex G (only: G.3.4, G.4.3, G.7.2, G.7.3.2.3)	EN IEC 62368-1:2020; EN IEC 62368-1:2020/A11:2020; EN IEC 62368-1:2020/AC2020-05; IEC 62368-1:2018; IEC 62368-1:2018/COR1:2020;	Visual examination
	LED modules for general lighting – Safety specifications	1. Scope 6.2 Contents of marking for built-in and for independent LED modules	IEC 62031:2018 EN IEC 62031:2020	
	Lamp controlgear Part 1: General and safety requirements	1. Scope 15.1 Wood, cotton, silk, paper and similar fibrous material	IEC 61347-1:2015; IEC 61347-1:2015/AMD1:2017; EN 61347-1:2015; EN 61347-1:2015/A1:2021;	
Mechanical ^F	Mechanical, electrical and electronic equipment	Environmental testing Part 2: Tests – Test Ea and guidance: Shock	CEI EN 60068-2-27:2012, EN 60068-2-27:2009, IEC 60068-2-27:2008	Dynamic acceleration: 0.5 ms to 3 ms D.L. = 500 m/s ² 0.5 ms to 30 ms D.L. = 10 m/s ²
		Environmental testing Part 2: Test – Test Fh: Vibration, broadband random and guidance	CEI EN 60068-2-64:2020, EN 60068-2-64:2008/A1:2020, IEC 60068-2-64:2008/A1:2019	Dynamic acceleration: 5 Hz to 2 000 Hz 2 m/s ² to 250 m/s ²
		Environmental testing Part 2-6: Tests – Test Fc: Vibration (sinusoidal)	CEI EN 60068-2-6:2009, EN 60068-2-6:2008, IEC 60068-2-6:2007	Dynamic acceleration: 5 Hz to 2 000 Hz 2 m/s ² to 200 m/s ²
	Railway applications rolling stock equipment	Shock and vibration tests Paragraph 8.1, 9.1, 10.5 Cat. 1 class A-Cat.1 class B	CEI EN 61373:2012, EN 61373:2010, IEC 61373:2010	D. L. = 500 kg



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Accreditation is granted to the facility to perform the following testing:

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this testing at its fixed location.

