



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, Electrical, Environmental, and Mechanical 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 05, 2019

Issue Date:

June 24, 2023

Expiration Date:

August 31, 2025

Accreditation No.:

89163

Certificate No.:

L23-494

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.pjllabs.com



Certificate of Accreditation: Supplement

Tecnolab del Lago Maggiore Srl

Via dell'industria 20, 28924, Verbania Fondotoce (VB) Italy
 Contact Name: Michele Setaro Phone: 032-358-6514

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 ^F	Steel	Determination of Chemical Composition	Optical Emission Spectrometry (S-OES) Non-Official Method PP.0040	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 %
	Copper and Copper Alloys			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 %



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Chemical ^F	Aluminum and Aluminum Alloys	Determination of Chemical Composition	Optical Emission Spectrometry (S-OES) Non Official Method PP.0040	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.
Environmental ^F	Environmental Testing on Mechanical Apparatus Electrical Apparatus and Sanitary Tapware	Salt Spray Test and Quantity and Dimension of Defects by Exposing; Appearance After Removing Superficial Corrosion Products; Appearance After Neutral Salt Spray Test; Loss of Mass after Neutral Salt Spray Test	ISO 9227:2022 Excluded Par 5.2.3. and 5.2.4 + EN ISO 10289:2001 EN 248:2002 IEC 60068-2-11:2021 ASTM B 117-19	Chamber Temperature: 35°C pH Initial Solution: 6.5pH ÷ 7.2pH Water conductivity ≤ 20µS NaCl solution 45g/l ÷ 55g/l
	Non Heat-Dissipating and Heat Dissipating Specimens	Climatic Test	CEI EN 60068-2-1:2007; CEI EN 60068-2-2:2008; CEI EN 60068-2-14:2011; –Excluded Par 9 Nc CEI EN 60068-2-30:2006; IEC 60068-2-38:2021; CEI EN 60068-2-78:2013	Cold: -60°C ÷ +5 °C Dry Heat (+30°C ÷ +175 °C) Change of temperature: Na Test: -80°C ÷ +220°C; Nb Test: -60°C ÷ +140 °C



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Mechanical ^F	Sanitary Tapware	Mechanical Properties	EN 200:2008 Cap. 4 Cap. 5 Cap. 6 Cap. 8 Cap. 9 Cap. 10 Cap. 11 Cap. 12 Cap. 14	Cap. 4 PASS/FAIL Cap. 5 PASS/FAIL Cap. 6 PASS/FAIL Cap. 8 PASS/FAIL Cap. 9 PASS/FAIL Cap. 10 [l/min] Cap. 11 PASS/FAIL Cap. 12 PASS/FAIL Cap. 14 [dB]
			EN 817:2008 Cap. 4 Cap. 5 Cap. 6 Cap. 8 Cap. 9 Cap. 10 Cap. 11 Cap. 12 Cap. 14	Cap. 4 PASS/FAIL Cap. 5 PASS/FAIL Cap. 6 PASS/FAIL Cap. 8 PASS/FAIL Cap. 9 PASS/FAIL Cap. 10 [l/min] Cap. 11 PASS/FAIL Cap. 12 PASS/FAIL Cap. 14 [dB]
			EN 1111:2017 Cap. 7 Cap. 8 Cap. 9 Cap. 12 Cap. 13 Cap. 14 Cap. 15 Cap. 16 Cap. 17	Cap. 7 PASS/FAIL Cap. 8 PASS/FAIL Cap. 9 PASS/FAIL Cap. 12 PASS/FAIL Cap. 13 [l/min] Cap. 14 PASS/FAIL Cap. 15 PASS/FAIL Cap. 16 PASS/FAIL Cap. 17 [dB]
			EN 1112:2008 Cap. 6 Cap. 7 Cap. 8 Cap. 9 Cap. 10 Cap. 11 Cap. 12 Cap. 13 Cap. 14	Cap. 6 PASS/FAIL Cap. 7 PASS/FAIL Cap. 8 PASS/FAIL Cap. 9 PASS/FAIL Cap. 10 PASS/FAIL Cap. 11 [l/min] Cap. 12 [dB] Cap. 13 PASS/FAIL Cap. 14 PASS/FAIL
			EN 1113:2015 Cap. 4 Cap. 5 Cap. 6.2 Cap. 7 Cap. 8 Cap. 9 Cap. 10	Cap. 4 PASS/FAIL Cap. 5 PASS/FAIL Cap. 6.2 PASS/FAIL Cap. 7 PASS/FAIL Cap. 8 [l/min] Cap. 9 PASS/FAIL Cap. 10 PASS/FAIL



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Contact Name: Danilo Prina Phone: 0323 586514

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Mechanical ^F	Sanitary Tapware	Mechanical Properties	EN 16145:2012 Cap. 6 Cap. 7 Cap. 8 Cap. 9 Cap. 10 Cap. 11 Cap. 13 Cap. 14	Cap. 6 PASS/FAIL Cap. 7 PASS/FAIL Cap. 8 PASS/FAIL Cap. 9 PASS/FAIL Cap. 10 PASS/FAIL Cap. 11 [l/min] Cap. 13 [dB] Cap. 14 PASS/FAIL
			EN 16146:2012 + A1:2014 Cap. 5 Cap. 6 Cap. 7 Cap. 8 Cap. 9 Cap. 10	Cap. 5 PASS/FAIL Cap. 6 PASS/FAIL Cap. 7 PASS/FAIL Cap. 8 [l/min] Cap. 9 PASS/FAIL Cap. 10 PASS/FAIL
			AS 4032.1:2005 Cap. 1.7 Cap. 4.3 + Appendix D Cap. 4.4 + Appendix E Cap. 4.5 + Appendix F Cap. 4.6 + Appendix G Cap. 4.7 + Appendix H Cap. 4.8 + Appendix I Cap. 4.9 + Appendix E Cap. 4.10 + Appendix J	Cap. 1.7 PASS/FAIL Cap. 4.3 PASS/FAIL Cap. 4.4 PASS/FAIL Cap. 4.5 PASS/FAIL Cap. 4.6 PASS/FAIL Cap. 4.7 PASS/FAIL Cap. 4.8 PASS/FAIL Cap. 4.9 PASS/FAIL Cap. 4.10 PASS/FAIL
			AS 4032.4:2014 Cap. 1.6 Cap. 4.3 + Appendix C Cap. 4.4 + Appendix D Cap. 4.5 + Appendix E Cap. 4.6 + Appendix F Cap. 4.7 + Appendix C Cap. 4.8 + Appendix G Cap. 4.11 + Appendix I Cap. 4.12 + Appendix J + Appendix K Cap. 4.13 + Appendix L Cap. 4.14 + Appendix M Cap. 4.15 + Appendix N Cap. 4.16	Cap. 1.6 PASS/FAIL Cap. 4.3 PASS/FAIL Cap. 4.4 PASS/FAIL Cap. 4.5 PASS/FAIL Cap. 4.6 PASS/FAIL Cap. 4.7 PASS/FAIL Cap. 4.8 PASS/FAIL Cap. 4.11 PASS/FAIL Cap. 4.12 [l/min] Cap. 4.13 PASS/FAIL Cap. 4.14 PASS/FAIL Cap. 4.15 PASS/FAIL Cap. 4.16 PASS/FAIL



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Mechanical ^F	Sanitary Tapware	Mechanical Properties	AS 3662:2013 Cap. 5.1 + Appendix B + Appendix G Cap. 5.2 + Appendix C Cap. 5.3 + Appendix D Cap. 5.5 + Appendix E Cap. 5.6 Cap. 5.7 + Appendix F Cap. 6	Cap. 5.1 [l/min] Cap. 5.2 PASS/FAIL Cap. 5.3 PASS/FAIL Cap. 5.5 PASS/FAIL Cap. 5.6 PASS/FAIL Cap. 5.7 PASS/FAIL Cap. 6 PASS/FAIL
			AS/NZS 3718:2005 (R2016) Cap 1.5 Cap 3 Cap 4.3 + Appendix D Cap 4.4 + Appendix E Cap 4.5 + Appendix F Cap 4.6 + Appendix G Cap 4.8 + Appendix H Cap 4.9 + Appendix I Cap 4.10 + Appendix J Cap 4.11 + Appendix K Cap 4.12 + Appendix L + Appendix Q Cap 4.13 + Appendix M Cap 4.15	Cap 1.5 PASS/FAIL Cap 3 PASS/FAIL Cap 4.3 PASS/FAIL Cap 4.4 PASS/FAIL Cap 4.5 PASS/FAIL Cap 4.6 [l/min] Cap 4.8 PASS/FAIL Cap 4.9 PASS/FAIL Cap 4.10 PASS/FAIL Cap 4.11 PASS/FAIL Cap 4.12 PASS/FAIL Cap 4.13 PASS/FAIL Cap 4.15 PASS/FAIL
			AS 3718 : 2021 Cap 1.5 Cap 3 Cap 4.3 + Appendix C Cap 4.4 + Appendix D Cap 4.5 + Appendix E Cap 4.6 + Appendix F + Appendix O Cap 4.8 + Appendix G Cap 4.9 + Appendix H Cap 4.10 + Appendix I - Cap 4.11 + Appendix J + Appendix Q + Appendix R - Excluded Ch. Q.4.4 (c) Cap 4.12 + Appendix K - Cap 4.14 Cap 4.16 + Appendix P + Appendix M	Cap 1.5 PASS/FAIL Cap 3 PASS/FAIL Cap 4.3 PASS/FAIL Cap 4.4 PASS/FAIL Cap 4.5 PASS/FAIL Cap 4.6 [l/min] Cap 4.8 PASS/FAIL Cap 4.9 PASS/FAIL Cap 4.10 PASS/FAIL Cap 4.11 PASS/FAIL Cap 4.12 PASS/FAIL Cap 4.14 PASS/FAIL Cap 4.16 PASS/FAIL



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Mechanical ^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 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
Acoustic ^F	Sanitary Tapware	Acoustic Properties	EN ISO 3822-1:1999/A1:2008 + EN ISO 3822-2:1995 + EN ISO 3822-4:1997	> 4 dB
	Building Valves		EN ISO 3822-1:1999/A1:2008 + EN ISO 3822-3:2018	



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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/A15: 2021 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;	0.1mA to 10 mA
	Safety of Machinery - Electrical Equipment of Machines - Part 1: General Requirements;		IEC 60204-1:2016; Clause 8.2.6; IEC 60204-1:2016 / AMD1:2021 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/AC:2020;	
	Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance		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/A2:2021 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;	Electric strength	IEC 60335-1:2020; Clause 13.3 and 16.3 EN 60335-1:2012; EN 60335-1:2012/A15: 2021 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;	0.5 kVac to 5 kVac 50/60 Hz; 0.5 kVdc to 6 kVdc
	Safety of Machinery - Electrical Equipment of Machines - Part 1: General Requirements;		IEC 60204-1:2016; Clause 18.4; IEC 60204-1:2016 / AMD1:2021 EN 60204-1:2018;	
	Luminaires - Part 1: General Requirements and Tests		IEC 60598-1:2020 Clause 10.2.2; EN IEC 60598-1:2020	
	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; EN IEC 62031:2020/A11:2021	
	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;	



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Electrical ^F	Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance	Electric strength	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/A2:2021 EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	0.5 kVac to 5 kVac 50/60 Hz; 0.5 kVdc to 6 kVdc
	Safety of Machinery - Electrical Equipment of Machines - Part 1: General Requirements;	Insulation resistance	IEC 60204-1:2016; Clause 18.3; IEC 60204-1:2016 / AMD1:2021 EN 60204-1:2018;	100 V to 1 000 V 1 MΩ to 5 000 MΩ
	Luminaires - Part 1: General Requirements and Tests		IEC 60598-1:2020 Clause 10.2.1; EN IEC 60598-1:2020	
	Lamp Control gear - 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; EN IEC 62031:2020/A11:2021	
	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;	



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Electrical ^F	Household and Similar Electrical Appliances – Safety –Part 1: General Requirements;	Earthing conductor resistance	IEC 60335-1:2020; Clause 27.5; EN 60335-1:2012; EN 60335-1:2012/A15: 2021 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;	5 A to 40 A 25 MΩ to 600 mΩ
	Safety of Machinery - Electrical Equipment of Machines - Part 1: General Requirements;		EN 60204-1:2018; Clause 18.2.2; IEC 60204-1:2016; IEC 60204-1:2016 / AMD1:2021	
	Luminaires - Part 1: General Requirements and Tests		IEC 60598-1:2020 Clause 7.2.3; EN IEC 60598-1:2020	
	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; EN IEC 62031:2020/A11:2021	
	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;	



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Electrical ^F	Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance	Earthing conductor resistance	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/A2:2021; EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	5 A to 40 A 25 MΩ to 600 mΩ
	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/A15: 2021 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;	15.0 V to 600.0 V 0.5 A A to 20.0 A
	Safety of Machinery - Electrical Equipment of Machines - Part 1: General Requirements		IEC 60204-1:2016; Clause 4.3; IEC 60204-1:2016 / AMD1:2021 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;	



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Electrical ^F	Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance	Power/current absorption	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/A2:2021; EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	15.0 V to 600.0 V 0.5 A A to 20.0 A
	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;	Diameter 12mm / Force: 10 N to 50 N
	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory use - Part 1: General Requirements		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;	
	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/A2:2021; 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; EN IEC 62031:2020/A11:2021	



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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
Electrical ^F	Household and Similar Electrical Appliances – Safety – Part 1: General Requirements;	Climatic Test	60335-1:2020, Clause 15.3; EN 60335-1:2012; EN 60335-1:2012/A15: 2021; 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;	-60 °C to 140 °C 30 % to 95 %
	Safety of Machinery - Electrical Equipment of Machines - Part 1: General Requirements		IEC 60204-1:2016; Clause 4.4.4; IEC 60204-1:2016 / AMD1:2021; EN 60204-1:2018;	
	Luminaires - Part 1: General Requirements and Tests		IEC 60598-1:2020 Clause 9.3.1; EN IEC 60598-1:2020	
	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; EN IEC 62031:2020/A11:2021;	
	Audi/video, Information and Communication Technology Equipment Part 1: Safety Requirements		IEC 62368-1:2018; Clause 5.4.8; 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 6.8.2; IEC 61010-1:2010/A1:2016; EN 61010-1:2010; EN 61010-1:2010/A1:2019; EN 61010-1:2010/A1:2019/AC:2019;	



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Electrical ^F	Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance	Climatic Test	IEC 60601-1:2005; Clause 5.7; IEC 60601-1:2005/AMD1:2012; IEC 60601-1:2005/AMD2:2020; EN 60601-1:2006; EN 60601-1:2006/A2:2021; EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	-60 °C to 140 °C 30% to 95%
	Automatic Electrical Controls - Part 1: General Requirements		IEC 60730-1:2013, Clause 12.2.8; IEC 60730-1/AMD1:2015; IEC 60730-1/AMD2:2020; EN 60730-1:2016; EN 60730-1/A1:2019;	
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; IEC 60204-1:2016 / AMD1:2021;	Visual examination
Electrical ^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 60598-1:2020; EN IEC 60598-1:2020	Visual examination



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Electrical ^F	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;	Visual examination
	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:2005; EN 60598-2-3:2003/A1:2011;	
	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;	
	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: 2022; EN 60598-2-20: 2015; EN 60598-2-20: 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 60598-2-22:2021; EN 60598-2-22:2014; EN 60598-2-22:2014/A1:2020 EN 60598-2-22:2014/AC:2015; EN 60598-2-22:2014/AC:2016; EN 60598-2-22:2014/AC:2016;	



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Electrical ^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/A15: 2021; 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
	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;	



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Electrical ^F	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; IEC 60335-2-15:2012/AMD2:2018; EN 60335-2-15:2016; EN 60335-2-15:2016/A11:2018; EN 60335-2-15:2016/A12:2021 EN 60335-2-15:2016/A1:2021 EN 60335-2-15:2016/A2:2021	Visual examination
	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; EN 60335-2-17:2013/A2:2021;	
	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;	
	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;	



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Electrical ^F	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; IEC 60335-2-75:2012/AMD1:2015 IEC 60335-2-75:2012/AMD2:2018 EN 60335-2-75:2004 EN 60335-2-75:2004/A1:2005 EN 60335-2-75:2004/A2:2008 EN 60335-2-75:2004/A11:2006 EN 60335-2-75:2004/A12:2010	Visual examination
	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)	EN 60335-2-102 2016 IEC 60335-2-102:2017	
	Household and Similar Electrical appliances Part 2: Particular Requirements for multifunctional shower cabinets	1.Scope 22. Construction (only: 22.102)	IEC 60335-2-105:2016; IEC 60335-2-105:2016/AMD1:2019; EN IEC 60335-2-105:2021; EN IEC 60335-2-105:2021/A1:2021; EN IEC 60335-2-105:2021/A11:2021;	



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Electrical ^F	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;	Visual examination
	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 IEC 61010-2-030:2021; EN IEC 61010-2-030:2021/A11:2021;	



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Electrical ^F	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)	IEC 60601-1:2005; IEC 60601-1:2005/AMD1:2012; IEC 60601-1:2005/AMD2:2020; EN 60601-1:2006; EN 60601-1:2006/A2:2021; EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	Visual examination



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Electrical ^F	Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance	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/A2:2021; EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	Visual examination
	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; EN 60601-1-6:2010/A1:2021; IEC 60601-1-6:2010; IEC 60601-1-6:2010/AMD1:2013; IEC 60601-1-6:2010/AMD2:2020;	



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Electrical ^F	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; EN 60601-1-11:2015; EN 60601-1-11:2015 / A1: 2021;	Visual examination
	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; IEC 60601-2-5:2009;	
	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;	



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Electrical ^F	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 EN IEC 62031:2020/A11:2021;	Visual examination
	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;	
	Non-metallic Components of Electrical Equipment	Glow wire Test	EN IEC 60695-2-10:2021; IEC 60695-2-10:2021; EN IEC 60695-2-11:2021; IEC 60695-2-11:2021, EN IEC 60695-2-12: 2021 IEC 60695-2-12:2021	500 °C to 960 °C
	Household and Similar Electrical Appliances – Safety –Part 1: General Requirements		IEC 60335-1:2020, Clause 30.2 and 16.2; EN 60335-1:2012; <i>EN 60335-1:2012/A15: 2021</i> 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	
	Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance		IEC 60601-1:2005; Clause 11.3; IEC 60601-1:2005/AMD1:2012; IEC 60601-1:2005/AMD2:2020; EN 60601-1:2006; <i>EN 60601-1:2006/A2:2021;</i> EN 60601-1:2006/A1:2013; EN 60601-1:2006/A1:2013/AC:2014; EN 60601-1:2006/A12:2014;	
	Luminaires - Part 1: General Requirements and Tests		<i>IEC 60598-1:2020</i> Clause 13.3.2; <i>EN IEC 60598-1:2020</i>	
	Lamp Controlgear - Part 1: General and Safety Requirements		IEC 61347-1:2015; Clause 18.3; IEC 61347-1:2015/AMD1:2017; EN 61347-1:2015; EN 61347-1:2015/A1:2021;	



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Electrical ^F	LED Modules for General Lighting - Safety Specifications	Glow wire Test	IEC 62031:2018; Clause 17; EN IEC 62031:2020; EN IEC 62031:2020/A11:2021	500 °C to 960 °C
	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory use - Part 1: General Requirements		IEC 61010-1:2010; Clause 9.3.2; IEC 61010-1:2010/AMD1:2016; EN 61010-1:2010; EN 61010-1:2010/A1:2019; EN 61010-1:2010/A1:2019/AC:2019;	
	Automatic Electrical Controls - Part 1: General Requirements		IEC 60730-1:2013, Clause 21.2; IEC 60730-1/AMD1:2015; IEC 60730-1/AMD2:2020; EN 60730-1:2016; EN 60730-1/A1:2019;	
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
	Mechanical, Electrical and Electronic Equipment	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 2000 Hz 2 m/s ² to 250 m/s ²
	Mechanical, Electrical and Electronic Equipment	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 2000 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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Tecnolab del Lago Maggiore Srl

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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
Electromagnetic Compatibility ^F	Automotive Electrical and Electronic Components	Electrical Transient Conduction Along Supply Lines only	ISO 7637-1:2015 ISO 7637-2:20S	Pulse 1 Pulse 2a/2b Pulse 3a/3b Pulse 4
		Electrical Loads	ISO 16750-1:2018 ISO 16750-2:2012	Direct current supply voltage; Overvoltage; Momentary drop in supply voltage; Starting profile; Slow increase/decrease of supply voltage; Reset behaviour at voltage drop; Load dump; Reversed voltage;

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.