



# 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

*Revision Date:*

April 11, 2022

*Accreditation No.:*

89163

*Certificate No.:*

L21-392 -R2

*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](http://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 <sup>F</sup> | Steel                               | Determination of Chemical Composition | Optical Emission Spectrometry (S-OES) Non Official Method PP.0040 | Detection Limit:<br>C - 0.001%<br>Si - 0.001%<br>Mn - 0.001%<br>P - 0.001%<br>S - 0.002%<br>Cr - 0.001%<br>Mo - 0.001%<br>Ni - 0.001%<br>Nb - 0.001%<br>Al - 0.001%<br>Cu - 0.001%<br>Co - 0.001%<br>B - 0.001%<br>Ti - 0.001%<br>V - 0.001%<br>W - 0.001%<br>Sn - 0.001%<br>Pb - 0.001%<br>Ca - 0.001%<br>Bi - 0.001%<br>As - 0.001%<br>Sb - 0.001%<br>Zn - 0.001%<br>Zr - 0.001% |
|                       | Copper and Copper Alloys            |                                       |   | Detectable Elements:<br>Zn - 0.005%<br>Pb - 0.001%<br>Sn - 0.002%<br>P - 0.001%<br>Mn - 0.001%<br>Fe - 0.001%<br>Ni - 0.001%<br>Al - 0.001%<br>Cr - 0.001%<br>S - 0.001%<br>Be - 0.001%<br>Cd - 0.001%<br>Co - 0.001%<br>Mg - 0.001%<br>B - 0.001%<br>Bi - 0.001%<br>As - 0.001%<br>Si - 0.001%<br>Zr - 0.005%<br>Sb - 0.001%<br>Te - 0.001%                                       |



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|-------------------------|-------------------------------------|---------------------------------------|---|---|
| Chemical <sup>F</sup>   | Aluminum and Aluminum Alloys        | Determination of Chemical Composition | Optical Emission Spectrometry (S-OES) Non Official Method PP.0040   | Detectable<br>Elements:<br>Si - 0.001%<br>Fe - 0.001%<br>Cu - 0.001%<br>Mn - 0.001%<br>Mg - 0.001%<br>Cr - 0.001%<br>Zn - 0.001%<br>Ni - 0.001%<br>Ti - 0.001%<br>Pb - 0.001%<br>Sn - 0.001%<br>V - 0.001%<br>Bi - 0.001%<br>Bo - 0.001%<br>Be - 0.001%<br>Ca - 0.001%<br>Cd - 0.001%<br>Co - 0.001%<br>Sr - 0.001%<br>Zr - 0.001%<br>Al - Rem. |
| Mechanical <sup>F</sup> | Sanitary tapware                    | Mechanical Properties                 | EN 200:2008<br>Cap. 4<br>Cap. 5<br>Cap. 6<br>Cap. 8<br>Cap. 9<br>Cap. 10<br>Cap. 11<br>Cap. 12<br>Cap. 14 | Cap. 4 PASS/FAIL<br>Cap. 5 PASS/FAIL<br>Cap. 6 PASS/FAIL<br>Cap. 8 PASS/FAIL<br>Cap. 9 PASS/FAIL<br>Cap. 10 [l/min]<br>Cap. 11<br>PASS/FAIL<br>Cap. 12<br>PASS/FAIL<br>Cap. 14 [dB]   |
|                         |                                     |                                       | EN 817:2008<br>Cap. 4<br>Cap. 5<br>Cap. 6<br>Cap. 8<br>Cap. 9<br>Cap. 10<br>Cap. 11<br>Cap. 12<br>Cap. 14 | Cap. 4 PASS/FAIL<br>Cap. 5 PASS/FAIL<br>Cap. 6 PASS/FAIL<br>Cap. 8 PASS/FAIL<br>Cap. 9 PASS/FAIL<br>Cap. 10 [l/min]<br>Cap. 11<br>PASS/FAIL<br>Cap. 12<br>PASS/FAIL<br>Cap. 14 [dB]   |



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Contact Name: Danilo Prina Phone: 0323 586514

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|-------------------------|-------------------------------------|---------------------------------------|--|---|
| Mechanical <sup>F</sup> | Sanitary tapware                    | Mechanical Properties                 | EN 1111:2017                                     | Cap. 7 PASS/FAIL<br>Cap. 8 PASS/FAIL<br>Cap. 9 PASS/FAIL<br>Cap. 12<br>Cap. 13<br>PASS/FAIL<br>Cap. 14 [l/min]<br>Cap. 15<br>PASS/FAIL<br>Cap. 16<br>PASS/FAIL<br>Cap. 17 [dB]          |
|                         |                                     |                                       | EN 1112:2008                                     | Cap. 6 PASS/FAIL<br>Cap. 7 PASS/FAIL<br>Cap. 8 PASS/FAIL<br>Cap. 9 PASS/FAIL<br>Cap. 10<br>PASS/FAIL<br>Cap. 11 [l/min]<br>Cap. 12 [dB]<br>Cap. 13<br>PASS/FAIL<br>Cap. 14<br>PASS/FAIL |
|                         |                                     |                                       | EN 1113:2015                                     | Cap. 4 PASS/FAIL<br>Cap. 5 PASS/FAIL<br>Cap. 6.2<br>Cap. 7<br>PASS/FAIL<br>Cap. 8<br>PASS/FAIL<br>Cap. 9 [l/min]<br>Cap. 10<br>PASS/FAIL  |
|                         |                                     |                                       | EN 16145:2012                                    | Cap. 6 PASS/FAIL<br>Cap. 7 PASS/FAIL<br>Cap. 8 PASS/FAIL<br>Cap. 9 PASS/FAIL<br>Cap. 10<br>PASS/FAIL<br>Cap. 11 [l/min]<br>Cap. 13 [dB]<br>Cap. 14<br>PASS/FAIL                         |



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|-------------------------|-------------------------------------|---------------------------------------|---|--|
| Mechanical <sup>F</sup> | Sanitary tapware                    | Mechanical Properties                 | EN 16146:2012 + A1:2014<br>Cap. 5<br>Cap. 6<br>Cap. 7<br>Cap. 8<br>Cap. 9<br>Cap. 10  | Cap. 5 PASS/FAIL<br>Cap. 6 PASS/FAIL<br>Cap. 7 PASS/FAIL<br>Cap. 8 [l/min]<br>Cap. 9 PASS/FAIL<br>Cap. 10<br>PASS/FAIL   |
|                         |                                     |                                       | AS 4032.1:2005<br>Cap. 1.7<br>Cap. 4.3 + Appendix D<br>Cap. 4.4 + Appendix E<br>Cap. 4.5 + Appendix F<br>Cap. 4.6 + Appendix G<br>Cap. 4.7 + Appendix H<br>Cap. 4.8 + Appendix I<br>Cap. 4.9 + Appendix E<br>Cap. 4.10 + Appendix J | Cap. 1.7<br>PASS/FAIL<br>Cap. 4.3<br>PASS/FAIL<br>Cap. 4.4<br>PASS/FAIL<br>Cap. 4.5<br>PASS/FAIL<br>Cap. 4.6<br>PASS/FAIL<br>Cap. 4.7<br>PASS/FAIL<br>Cap. 4.8<br>PASS/FAIL<br>Cap. 4.9<br>PASS/FAIL<br>Cap. 4.10<br>PASS/FAIL |



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|-------------------------|-------------------------------------|---------------------------------------|--|---|
| Mechanical <sup>F</sup> | Sanitary tapware                    | Mechanical Properties                 | AS 4032.4:2014   | Cap. 1.6<br>PASS/FAIL   |
|                         |                                     |                                       | Cap. 4.3 + Appendix C<br>Cap. 4.4 + Appendix D<br>Cap. 4.5 + Appendix E<br>Cap. 4.6 + Appendix F<br>Cap. 4.7 + Appendix C<br>Cap. 4.8 + Appendix G<br>Cap. 4.11 + Appendix I<br>Cap. 4.12 + Appendix J + Appendix K<br>Cap. 4.13 + Appendix L<br>Cap. 4.14 + Appendix M<br>Cap. 4.15 + Appendix N<br>Cap. 4.16 | Cap. 4.3<br>PASS/FAIL<br>Cap. 4.4<br>PASS/FAIL<br>Cap. 4.5<br>PASS/FAIL<br>Cap. 4.6<br>PASS/FAIL<br>Cap. 4.7<br>PASS/FAIL<br>Cap. 4.8<br>PASS/FAIL<br>Cap. 4.11<br>PASS/FAIL<br>Cap. 4.12 [l/min] |
|                         |                                     |                                       | AS 3662:2013   | Cap. 4.13<br>PASS/FAIL<br>Cap. 4.14<br>PASS/FAIL<br>Cap. 4.15<br>PASS/FAIL<br>Cap. 4.16<br>PASS/FAIL  |
|                         |                                     |                                       | Cap. 5.1 + Appendix B + Appendix G<br>Cap. 5.2 + Appendix C<br>Cap. 5.3 + Appendix D<br>Cap. 5.5 + Appendix E<br>Cap. 5.6<br>Cap. 5.7 + Appendix F<br>Cap. 6   | Cap. 5.1 [l/min]<br>Cap. 5.2<br>PASS/FAIL<br>Cap. 5.3<br>PASS/FAIL<br>Cap. 5.5<br>PASS/FAIL<br>Cap. 5.6<br>PASS/FAIL<br>Cap. 5.7<br>PASS/FAIL<br>Cap. 6 PASS/FAIL                                 |



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|-------------------------|-------------------------------------|---------------------------------------|---|---|
| Mechanical <sup>F</sup> | Sanitary tapware                    | Mechanical Properties                 | AS/NZS 3718:2005 (R2016)<br>Cap 1.5<br>Cap 3<br>Cap 4.3 + Appendix D<br>Cap 4.4 + Appendix E<br>Cap 4.5 + Appendix F<br>Cap 4.6 + Appendix G<br>Cap 4.8 + Appendix H<br>Cap 4.9 + Appendix I<br>Cap 4.10 + Appendix J<br>Cap 4.11 + Appendix K<br>Cap 4.12 + Appendix L + Appendix Q<br>Cap 4.13 + Appendix M<br>Cap 4.15 | Cap 1.5<br>PASS/FAIL<br>Cap 3 PASS/FAIL<br>Cap 4.3<br>PASS/FAIL<br>Cap 4.4<br>PASS/FAIL<br>Cap 4.5<br>PASS/FAIL<br>Cap 4.6 [l/min]<br>Cap 4.8<br>PASS/FAIL<br>Cap 4.9<br>PASS/FAIL<br>Cap 4.10<br>PASS/FAIL<br>Cap 4.11<br>PASS/FAIL<br>Cap 4.12<br>PASS/FAIL<br>Cap 4.13<br>PASS/FAIL<br>Cap 4.15<br>PASS/FAIL |



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|-------------------------|-------------------------------------|---------------------------------------|--|---|
| Mechanical <sup>F</sup> | Sanitary tapware                    | Mechanical Properties                 | AS 3718 : 2021<br>Cap 1.5<br>Cap 3<br>Cap 4.3 + Appendix C<br>Cap 4.4 + Appendix D<br>Cap 4.5 + Appendix E<br>Cap 4.6 + Appendix F + Appendix O<br>Cap 4.8 + Appendix G<br>Cap 4.9 + Appendix H<br>Cap 4.10 + Appendix I -<br>Cap 4.11 + Appendix J + Appendix Q + Appendix R -<br>Excluded Ch. Q.4.4 (c)<br>Cap 4.12 + Appendix K -<br>Cap 4.14<br>Cap 4.16 + Appendix P + Appendix M | Cap 1.5<br>PASS/FAIL<br>Cap 3 PASS/FAIL<br>Cap 4.3<br>PASS/FAIL<br>Cap 4.4<br>PASS/FAIL<br>Cap 4.5<br>PASS/FAIL<br>Cap 4.6 [l/min]<br><br>Cap 4.8<br>PASS/FAIL<br>Cap 4.9<br>PASS/FAIL<br>Cap 4.10<br>PASS/FAIL<br>Cap 4.11<br>PASS/FAIL<br>Cap 4.12<br>PASS/FAIL<br>Cap 4.14<br>PASS/FAIL<br>Cap 4.16<br>PASS/FAIL |
| Acoustic <sup>F</sup>   |                                     | 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  |   |
| Mechanical <sup>F</sup> | Sanitary taps and fittings          | Mechanical Properties                 | SASO 2655:2019<br>Clause 4.4<br>Clause 5.1<br>Clause 5.2<br>Clause 5.3 Excluded 5.3.3 and 5.3.7<br>Clause 5.4<br>Clause 5.5<br>Clause 5.6<br>Clause 5.7<br>Clause 5.8<br>Clause 5.9<br>Clause 6  | Cl. 4.4 PASS/FAIL<br>Cl. 5.1 PASS/FAIL<br>Cl. 5.2 PASS/FAIL<br>Cl. 5.3 PASS/FAIL<br>Cl. 5.4 [l/min]<br>Cl. 5.5 [N]<br>Cl. 5.6 PASS/FAIL<br>Cl. 5.7 PASS/FAIL<br>Cl. 5.8 PASS/FAIL<br>Cl. 5.9 PASS/FAIL<br>Cl. 6 PASS/FAIL   |





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|-------------------------|--|---------------------------------------|---|---|
| Electrical <sup>F</sup> | 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;<br>EN 60335-1:2012;<br>EN 60335-1:2012/A15: 2021<br>EN 60335-1:2012/A1/A2/A14:2019;<br>EN 60335-1:2012/A13:2017;<br>EN 60335-1:2012/A12:2017;<br>EN 60335-1:2012/A11:2014;<br>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;<br>IEC 60204-1:2016 / AMD1:2021<br>EN 60204-1:2018;   |   |
|                         | Audio/video, information and communication technology equipment Part 1: Safety requirements            |                                       | IEC 62368-1:2018; Clause 5.7.2.1;<br>IEC 62368-1:2018/COR1:2020;<br>EN IEC 62368-1:2020;<br>EN IEC 62368-1:2020/A11:2020;<br>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;<br>IEC 60601-1:2005/AMD1:2012;<br>IEC 60601-1:2005/AMD2:2020;<br>EN 60601-1:2006;<br>EN 60601-1:2006/A2:2021<br>EN 60601-1:2006/A1:2013;<br>EN 60601-1:2006/A1:2013/AC:2014;<br>EN 60601-1:2006/A12:2014; |   |



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|-------------------------|--|---------------------------------------|---|---|
| Electrical <sup>F</sup> | Household and similar electrical appliances – Safety – Part 1: General requirements;                                     | Electric strength                     | IEC 60335-1:2020; Clause 13.3 and 16.3<br>EN 60335-1:2012;<br>EN 60335-1:2012/A15: 2021<br>EN 60335-1:2012/A1/A2/A14:2019;<br>EN 60335-1:2012/A13:2017;<br>EN 60335-1:2012/A12:2017;<br>EN 60335-1:2012/A11:2014;<br>EN 60335-1:2012/AC:2014; | 0.5 kVac to 5 kVac<br>50/60 Hz;<br>0.5 kVdc to 6 kVdc |
|                         | Safety of machinery - Electrical equipment of machines - Part 1: General requirements;                                   |                                       | IEC 60204-1:2016; Clause 18.4;<br>IEC 60204-1:2016 / AMD1:2021<br>EN 60204-1:2018;  |   |
|                         | Luminaires - Part 1: General requirements and tests  |                                       | IEC 60598-1:2020 Clause 10.2.2;<br>EN IEC 60598-1:2020  |   |
|                         | Lamp controlgear - Part 1: General and safety requirements   |                                       | IEC 61347-1:2015; Clause 12;<br>IEC 61347-1:2015/AMD1:2017;<br>EN 61347-1:2015;<br>EN 61347-1:2015/A1:2021;   |   |
|                         | LED modules for general lighting - Safety specifications   |                                       | IEC 62031:2018; Clause 11;<br>EN IEC 62031:2020;<br>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;<br>IEC 62368-1:2018/COR1:2020;<br>EN IEC 62368-1:2020;<br>EN IEC 62368-1:2020/A11:2020;<br>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;<br>IEC 61010-1:2010/AMD1:2016;<br>EN 61010-1:2010;<br>EN 61010-1:2010/A1:2019;<br>EN 61010-1:2010/A1:2019/AC:2019;  |   |



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|-------------------------|--|---------------------------------------|---|---|
| Electrical <sup>F</sup> | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance | Electric strength                     | IEC 60601-1:2005; Clause 8.8.3;<br>IEC 60601-1:2005/AMD1:2012;<br>IEC 60601-1:2005/AMD2:2020;<br>EN 60601-1:2006;<br>EN 60601-1:2006/A2:2021<br>EN 60601-1:2006/A1:2013;<br>EN 60601-1:2006/A1:2013/AC:2014;<br>EN 60601-1:2006/A12:2014; | 0.5 kVac to 5 kVac<br>50/60 Hz;<br>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;<br>IEC 60204-1:2016 / AMD1:2021<br>EN 60204-1:2018;  | 100 V to 1 000 V<br>1 MΩ to 5 000 MΩ                  |
|                         | Luminaires - Part 1: General requirements and tests  |                                       | IEC 60598-1:2020 Clause 10.2.1;<br>EN IEC 60598-1:2020  |   |
|                         | Lamp controlgear - Part 1: General and safety requirements   |                                       | IEC 61347-1:2015; Clause 11;<br>IEC 61347-1:2015/AMD1:2017;<br>EN 61347-1:2015;<br>EN 61347-1:2015/A1:2021;   |   |
|                         | LED modules for general lighting - Safety specifications   |                                       | IEC 62031:2018; Clause 10;<br>EN IEC 62031:2020;<br>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;<br>IEC 62368-1:2018/COR1:2020;<br>EN IEC 62368-1:2020;<br>EN IEC 62368-1:2020/A11:2020;<br>EN IEC 62368-1:2020/AC2020-05;  |   |



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|-------------------------|--|---------------------------------------|---|---|
| Electrical <sup>F</sup> | Household and similar electrical appliances – Safety – Part 1: General requirements;                                     | Earthing conductor resistance         | IEC 60335-1:2020; Clause 27.5;<br>EN 60335-1:2012;<br>EN 60335-1:2012/A15: 2021<br>EN 60335-1:2012/A1/A2/A14:2019;<br>EN 60335-1:2012/A13:2017;<br>EN 60335-1:2012/A12:2017;<br>EN 60335-1:2012/A11:2014;<br>EN 60335-1:2012/AC:2014; | 5 A to 40 A<br>25 MΩ to 600 mΩ                |
|                         | Safety of machinery - Electrical equipment of machines - Part 1: General requirements;                                   |                                       | EN 60204-1:2018; Clause 18.2.2;<br>IEC 60204-1:2016;<br>IEC 60204-1:2016 / AMD1:2021  |   |
|                         | Luminaires - Part 1: General requirements and tests  |                                       | IEC 60598-1:2020 Clause 7.2.3;<br>EN IEC 60598-1:2020   |   |
|                         | Lamp controlgear - Part 1: General and safety requirements   |                                       | IEC 61347-1:2015; Clause 9.1;<br>IEC 61347-1:2015/AMD1:2017;<br>EN 61347-1:2015;<br>EN 61347-1:2015/A1:2021;  |   |
|                         | LED modules for general lighting - Safety specifications   |                                       | IEC 62031:2018; Clause 8;<br>EN IEC 62031:2020;<br>EN IEC 62031:2020/A11:2021   |   |
|                         | Audi/video, information and communication technology equipment Part 1: Safety requirements                               |                                       | IEC 62368-1:2018; Clsue 5.6.4.1;<br>IEC 62368-1:2018/COR1:2020;<br>EN IEC 62368-1:2020;<br>EN IEC 62368-1:2020/A11:2020;<br>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;<br>IEC 61010-1:2010/A1:2016;<br>EN 61010-1:2010;<br>EN 61010-1:2010/A1:2019;<br>EN 61010-1:2010/A1:2019/AC:2019;  |   |



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 Contact Name: Michele Setaro Phone: 0323 586514

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|-------------------------|--|---------------------------------------|--|---|
| Electrical <sup>F</sup> | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance                   | Earthing conductor resistance         | IEC 60601-1:2005; Clause 8.6.4;<br>IEC 60601-1:2005/AMD1:2012;<br>IEC 60601-1:2005/AMD2:2020;<br>EN 60601-1:2006;<br>EN 60601-1:2006/A2:2021;<br>EN 60601-1:2006/A1:2013;<br>EN 60601-1:2006/A1:2013/AC:2014;<br>EN 60601-1:2006/A12:2014; | 5 A to 40 A<br>25 MΩ to 600 mΩ                |
|                         | Household and similar electrical appliances – Safety – Part 1: General requirements                                      | Power/current absorption              | IEC 60335-1:2020; Clause 10;<br>EN 60335-1:2012;<br>EN 60335-1:2012/A15: 2021<br>EN 60335-1:2012/A1/A2/A14:2019;<br>EN 60335-1:2012/A13:2017;<br>EN 60335-1:2012/A12:2017;<br>EN 60335-1:2012/A11:2014;<br>EN 60335-1:2012/AC:2014;        | 15.0 V to 600.0 V<br>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;<br>IEC 60204-1:2016 / AMD1:2021<br>EN 60204-1:2018;  |   |
|                         | Audi/video, information and communication technology equipment Part 1: Safety requirements                               |                                       | IEC 62368-1:2018; Annex B2.5;<br>IEC 62368-1:2018/COR1:2020;<br>EN IEC 62368-1:2020;<br>EN IEC 62368-1:2020/A11:2020;<br>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;<br>EN 61010-1:2010/A1:2019;<br>EN 61010-1:2010/A1:2019/AC:2019;<br>IEC 61010-1:2010;<br>IEC 61010-1:2010/A1:2016;   |   |



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| Electrical <sup>F</sup> | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance                   | Power/current absorption                | IEC 60601-1:2005; Clause 4.11;<br>IEC 60601-1:2005/AMD1:2012;<br>IEC 60601-1:2005/AMD2:2020;<br>EN 60601-1:2006;<br>EN 60601-1:2006/A2:2021;<br>EN 60601-1:2006/A1:2013;<br>EN 60601-1:2006/A1:2013/AC:2014;<br>EN 60601-1:2006/A12:2014;    | 15.0 V to 600.0 V<br>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;<br>IEC 62368-1:2018/COR1:2020;<br>EN IEC 62368-1:2020;<br>EN IEC 62368-1:2020/A11:2020;<br>EN IEC 62368-1:2020/AC2020-05;  | Diameter 12mm /<br>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<br>IEC 61010-1:2010/A1:2016;<br>EN 61010-1:2010;<br>EN 61010-1:2010/A1:2019;<br>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;<br>IEC 60601-1:2005/AMD1:2012;<br>IEC 60601-1:2005/AMD2:2020;<br>EN 60601-1:2006;<br>EN 60601-1:2006/A2:2021;<br>EN 60601-1:2006/A1:2013;<br>EN 60601-1:2006/A1:2013/AC:2014;<br>EN 60601-1:2006/A12:2014; |   |
|                         | LED modules for general lighting - Safety specifications   |   | IEC 62031:2018; Clause 9;<br>EN IEC 62031:2020;<br>EN IEC 62031:2020/A11:2021  |   |



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|-------------------------|--|---------------------------------------|--|---|
| Electrical <sup>F</sup> | Household and similar electrical appliances – Safety – Part 1: General requirements;                                     | Climatic test                         | 60335-1:2020, Clause 15.3;<br>EN 60335-1:2012;<br>EN 60335-1:2012/A15: 2021;<br>EN 60335-1:2012/A1/A2/A14:2019;<br>EN 60335-1:2012/A13:2017;<br>EN 60335-1:2012/A12:2017;<br>EN 60335-1:2012/A11:2014;<br>EN 60335-1:2012/AC:2014; | -60 °C to 140 °C<br>30% to 95%                |
|                         | Safety of machinery - Electrical equipment of machines - Part 1: General requirements                                    |                                       | IEC 60204-1:2016; Clause 4.4.4;<br>IEC 60204-1:2016 / AMD1:2021;<br>EN 60204-1:2018;   |   |
|                         | Luminaires - Part 1: General requirements and tests  |                                       | IEC 60598-1:2020 Clause 9.3.1;<br>EN IEC 60598-1:2020  |   |
|                         | Lamp controlgear - Part 1: General and safety requirements   |                                       | IEC 61347-1:2015; Clause 11;<br>IEC 61347-1:2015/AMD1:2017;<br>EN 61347-1:2015;<br>EN 61347-1:2015/A1:2021;  |   |
|                         | LED modules for general lighting - Safety specifications   |                                       | IEC 62031:2018; Clause 10;<br>EN IEC 62031:2020;<br>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;<br>IEC 62368-1:2018/COR1:2020;<br>EN IEC 62368-1:2020;<br>EN IEC 62368-1:2020/A11:2020;<br>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;<br>IEC 61010-1:2010/A1:2016;<br>EN 61010-1:2010;<br>EN 61010-1:2010/A1:2019;<br>EN 61010-1:2010/A1:2019/AC:2019;   |   |



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|---|--|---|--|---|
| Electrical <sup>F</sup>                     | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance | Climatic test   | IEC 60601-1:2005; Clause 5.7;<br>IEC 60601-1:2005/AMD1:2012;<br>IEC 60601-1:2005/AMD2:2020;<br>EN 60601-1:2006;<br>EN 60601-1:2006/A2:2021;<br>EN 60601-1:2006/A1:2013;<br>EN 60601-1:2006/A1:2013/AC:2014;<br>EN 60601-1:2006/A12:2014; | -60 °C to 140 °C<br>30% to 95%                |
|   | Automatic electrical controls - Part 1: General requirements   |   | IEC 60730-1:2013, Clause 12.2.8;<br>IEC 60730-1/AMD1:2015;<br>IEC 60730-1/AMD2:2020;<br>EN 60730-1:2016;<br>EN 60730-1/A1:2019;  |   |
| Visual and documental analysis <sup>F</sup> | Safety of machinery – Electrical equipment of machines – Part 1: General requirements                  | 1. Scope<br>18.2 Verification of conditions for protection by automatic disconnection of supply (only: 18.2.3)  | EN 60204-1:2018;<br>IEC 60204-1:2016;<br>IEC 60204-1:2016 / AMD1:2021;   | Visual examination                            |
| Electrical <sup>F</sup>                     | Luminaires - Part 1: General requirements and tests  | 0.1 Scope<br>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)<br>5. EXTERNAL AND INTERNAL WIRING (only: 5.2.9, 5.2.12, 5.2.18)<br>7. PROVISION FOR EARTHING (only: 7.2.10, 7.2.11)<br>14. SCREW TERMINALS (only: 14.4.3, 15.5.2.2.3, 15.6.3.2.5) | IEC 60598-1:2020;<br>EN IEC 60598-1:2020   | Visual examination                            |





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|-------------------------|---|--|--|---|
| Electrical <sup>F</sup> | Luminaires - Part 2-2: Particular requirements - Recessed luminaires                          | 2.1 Scope<br>2.12 Protection against electric shock  | IEC 60598-2-2:2011;<br>EN 60598-2-2:2012;  | Visual examination                            |
|                         | Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting      | 3.1 Scope<br>3.6 Construction (only: 3.6.4)  | IEC 60598-2-3:2002;<br>IEC 60598-2-3:2002/AMD1:2011;<br>EN 60598-2-3:2003;<br>EN 60598-2-3:2003/corrigendum:2005;<br>EN 60598-2-3:2003/A1:2011;                        |   |
|                         | Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires | 4.1 Scope<br>4.7 Construction (only: 4.7.1, 4.7.2, 4.7.4, 4.7.5, 4.7.7, 4.7.8)<br>4.11 External and internal wiring (only: 4.11.4) | IEC 60598-2-4:2017;<br>EN 60598-2-4:2018;  |   |
|                         | Luminaires - Part 2-5: Particular requirements - Floodlights                                  | 5.1 Scope  | IEC 60598-2-5:2015;<br>EN 60598-2-5: 2015;   |   |
|                         | Luminaires - Part 2-8: Particular requirements - Handlamps                                    | 8.1 Scope<br>8.11 External and internal wiring (only: 8.11.1, 8.11.3, 8.11.5)  | IEC 60598-2-8:2013;<br>EN 60598-2-8: 2013;   |   |
|                         | Luminaires - Part 2-20: Particular requirements - Lighting chains                             | 20.1 Scope<br>20. Construction (only: 20.7.2)  | IEC 60598-2-20: 2022;<br>EN 60598-2-20: 2015;<br>EN 60598-2-20: 2015 /AC:2017;   |   |
|                         | Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting           | 22.1 Scope<br>22.6 Marking<br>22.7 Construction (only: 22.7.1, 22.7.6, 22.7.10, 22.11.1, 22.17.4)                                  | IEC 60598-2-22:2021;<br>EN 60598-2-22:2014;<br>EN 60598-2-22:2014/A1:2020<br>EN 60598-2-22:2014/AC:2015;<br>EN 60598-2-22:2014/AC:2016;<br>EN 60598-2-22:2014/AC:2016; |   |



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|-------------------------|---|--|---|---|
| Electrical <sup>F</sup> | Household and similar electrical appliances – Safety – Part 1: General requirements;                        | 1. Scope<br>7. Marking and instructions (excluded: 7.12.3, 7.14)<br>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)<br>23. Internal wiring (only: 23.1, 23.7, 23.8, 23.9)<br>24. Componentets (only: 24.2)<br>25. Supply connection and external flexible cords (only: 25.1, 25.5, 25.6, 25.9, 25.11, 25.12, 25.18, 25.19)<br>26. Terminals for external conductors (only: 26.7, 26.8)<br>27. Provision for earthing (only: 27.1)<br>28. Screws and connections (only: 28.2, 28.3) | IEC 60335-1:2020;<br>EN 60335-1:2012;<br>EN 60335-1:2012/A15: 2021;<br>EN 60335-1:2012/A1/A2/A14:2019;<br>EN 60335-1:2012/A13:2017;<br>EN 60335-1:2012/A12:2017;<br>EN 60335-1:2012/A11:2014;<br>EN 60335-1:2012/AC:2014; | Visual examination                            |
|                         | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | 1. Scope<br>22. Construction (only: 22.101, 22.103, 22.107)<br>24. Components (only: 24.101)   | IEC 60335-2-3:2012<br>IEC 60335-2-3:2012/AMD1:2015<br>EN 60335-2-3:2016;<br>EN 60335-2-3:2016/A1:2020;  |   |



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|-------------------------|--|---|---|---|
| Electrical <sup>F</sup> | Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids                                   | 1. Scope<br>22. Construction (only: 22.107, 22.112, 22.113, 22.114)<br>25. Supply connection and external flexible cords (only: 25.22)          | IEC 60335-2-15:2012;<br>IEC 60335-2-15:2012/AMD1:2016;<br>IEC 60335-2-15:2012/AMD2:2018;<br>EN 60335-2-15:2016;<br>EN 60335-2-15:2016/A11:2018;<br>EN 60335-2-15:2016/A12:2021<br>EN 60335-2-15:2016/A1:2021<br>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<br>7. Marking and instructions (only: 7.101)<br>22. Construction (only: 22.26, 22.101, 22.102, 22.103, 22.105, 22.110, 22.112, 22.113) | IEC 60335-2-17:2012;<br>IEC 60335-2-17:2012/AMD1:2015;<br>IEC 60335-2-17:2012/AMD2:2019;<br>EN 60335-2-17:2013;<br>EN 60335-2-17:2013/A11:2019;<br>EN 60335-2-17:2013/A1:2020;<br>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<br>22. Construction (only: 22.103)   | IEC 60335-2-23:2016;<br>IEC 60335-2-23:2016/AMD1:2019;<br>EN 60335-2-23:2003;<br>EN60335-2-23:2003/A1:2008;<br>EN60335-2-23:2003/A11:2010;<br>EN60335-2-23:2003/A11:2010/AC:2012;<br>EN60335-2-23:2003/A2:2015;   |   |
|                         | Household and similar electrical appliances - Safety - Part 2-30: Particular requirements for room heaters   | 1. Scope<br>22. Construction (only: 22.104, 22.108, 22.109)<br>24. Components (only: 24.101)  | IEC 60335-2-30:2009;<br>IEC 60335-2-30:2009/COR1:2014;<br>IEC 60335-2-30:2009/AMD1:2016;<br>IEC 60335-2-30:2009/AMD2:2021;<br>EN 60335-2-30:2009;<br>EN 60335-2-30:2009/A11:2012;<br>EN 60335-2-30:2009/AC:2014;<br>EN 60335-2-30:2009/A1:2020;<br>EN 60335-2-30:2009/A12:2020; |   |



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| Electrical <sup>F</sup> | Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines                     | 1. Scope<br>7. Marking and instructions (only: 7.12.101, 7.12.102)<br>22. Construction (only: 22.104, 22.106, 22.107, 22.108, 22.109, 22.111, 22.113)<br>23. Internal wiring (only: 23.101)<br>24. Components (only: 24.101) | IEC 60335-2-75:2012<br>IEC 60335-2-75:2012+AMD1:2015;<br>IEC 60335-2-75:2012/AMD1:2015<br>IEC 60335-2-75:2012/AMD2:2018<br>EN 60335-2-75:2004<br>EN 60335-2-75:2004/A1:2005<br>EN 60335-2-75:2004/A2:2008<br>EN 60335-2-75:2004/A11:2006<br>EN 60335-2-75:2004/A12:2010 | Visual examination                            |
|                         | Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans  | 1. Scope<br>6. Classification (only: 6.101)<br>22. Construction (only: 22.101, 22.102.3)<br>24 Components (only: 24.101)<br>27 Provision for earthing (only:27.3)  | EN 60335-2-80:2003;<br>EN 60335-2-80:2003/A1:2004;<br>EN 60335-2-80:2003/A2: 2009;<br>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<br>22. Construction (only: 22.102)<br>24. Components (only: 24.101)   | EN 60335-2-102 2016<br>IEC 60335-2-102:2017   |   |
|                         | Household and similar electrical appliances<br>Part 2: Particular requirements for multifunctional shower cabinets  | 1.Scope<br>22. Construction (only: 22.102)   | IEC 60335-2-105:2016;<br>IEC 60335-2-105:2016/AMD1:2019;<br>EN IEC 60335-2-105:2021;<br>EN IEC 60335-2-105:2021/A1:2021;<br>EN IEC 60335-2-105:2021/A11:2021;   |   |



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|-------------------------|--|--|--|---|
| Electrical <sup>F</sup> | Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements   | 1. Scope and object<br>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)<br>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)<br>7. Protection against mechanical HAZARDS (only: 7.3.2)<br>9. Protection against the spread of fire (9.6.2, 9.6.3)<br>11. Protection against HAZARDS from fluids and solid foreign objects (only: 11.5)<br>12. Protection against radiation, including laser sources, and against sonic and ultrasonic pressure (only: 12.2.2)<br>14. Components and subassemblies (only: 14.2.2) | IEC 61010-1:2010;<br>IEC 61010-1:2010/A1:2016;<br>EN 61010-1:2010;<br>EN 61010-1:2010/A1:2019;<br>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<br>5. Marking and documentation (only: 5.1.5.101.2, 5.1.5.101.3)   | IEC 61010-2-030:2017;<br>EN IEC 61010-2-030:2021;<br>EN IEC 61010-2-030:2021/A11:2021;   |   |



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|-------------------------|--|---|--|---|
| Electrical <sup>F</sup> | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance | 1.1 Scope<br>4. General requirements (only: 4.4, 4.5, 4.6, 4.10.1)<br>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)<br>9. Protection against MECHANICAL HAZARDS of ME EQUIPMENT and ME SYSTEMS (only: 9.2.2.4.2)<br>10. Protection against unwanted and excessive radiation HAZARDS (only: 10.2, 10.5, 10.6, 10.7) | IEC 60601-1:2005;<br>IEC 60601-1:2005/AMD1:2012;<br>IEC 60601-1:2005/AMD2:2020;<br>EN 60601-1:2006;<br>EN 60601-1:2006/A2:2021;<br>EN 60601-1:2006/A1:2013;<br>EN 60601-1:2006/A1:2013/AC:2014;<br>EN 60601-1:2006/A12:2014; | Visual examination                            |



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| Electrical <sup>F</sup> | 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)<br>12. Accuracy of controls and instruments and protection against hazardous Outputs<br>13. HAZARDOUS SITUATIONS and fault conditions for ME EQUIPMENT (only: 13.2.6)<br>15. Construction of ME EQUIPMENT (only: 15.4.2.2, 15.4.3.2, 15.4.5)<br>16. ME SYSTEMS (only: 16.3, 16.4, 16.9.2.3)<br>17. Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS | IEC 60601-1:2005;<br>IEC 60601-1:2005/AMD1:2012;<br>IEC 60601-1:2005/AMD2:2020;<br>EN 60601-1:2006;<br>EN 60601-1:2006/A2:2021;<br>EN 60601-1:2006/A1:2013;<br>EN 60601-1:2006/A1:2013/AC:2014;<br>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<br>4.2 Usability engineering process for me equipment  | EN 60601-1-6:2010;<br>EN 60601-1-6:2010/A1:2015;<br>EN 60601-1-6:2010/A1:2021;<br>IEC 60601-1-6:2010;<br>IEC 60601-1-6:2010/AMD1:2013;<br>IEC 60601-1-6:2010/AMD2:2020;  |   |



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|-------------------------|---|---|---|---|
| Electrical <sup>F</sup> | 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<br>6. Classification of ME EQUIPMENT and ME SYSTEMS<br>7. ME EQUIPMENT identification, marking and documents (only: 7.4, 7.5)<br>10 Construction of ME EQUIPMENT (only:10.2, 10.3)<br>11. Protection against strangulation or asphyxiation<br>13. Additional requirements for ALARM SYSTEMS of ME EQUIPMENT and ME SYSTEMS (only: 13.1) | IEC 60601-1-11:2015;<br>IEC 60601-1-11:2015 / AMD1:2020;<br>EN 60601-1-11:2015;<br>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<br>201.10.101 Ultrasonic energy<br>201.12 Accuracy of controls and instruments and protection against hazardous outputs (only: 201.12.1.102)  | EN 60601-2-5:2015;<br>IEC 60601-2-5:2009;   |   |
|                         | Audi/video, information and communication technology equipment Part 1: Safety requirements  | 1. Scope<br>6. Electrically-caused fire (only: 6.5.3)<br>7. Injury caused by hazardous substances (only: 7.3, 7.4, 7.5)<br>8. Mechanically-caused injury (only: 8.5.4.2.2.1)<br>Annex F (only: F.2.3, F.3.1, F.3.2, F.3.3.8, F.3.4, F.3.6, F.4)<br>Annex G (only: G.3.4, G.4.3, G.7.2, G.7.3.2.3)   | EN IEC 62368-1:2020;<br>EN IEC 62368-1:2020/A11:2020;<br>EN IEC 62368-1:2020/AC2020-05;<br>IEC 62368-1:2018;<br>IEC 62368-1:2018/COR1:2020; |   |





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|-------------------------|--|--|---|---|
| Electrical <sup>F</sup> | LED modules for general lighting – Safety specifications   | 1. Scope<br>6.2 Contents of marking for built-in and for independent LED modules | IEC 62031:2018<br>EN IEC 62031:2020<br>EN IEC 62031:2020/A11:2021;  | Visual examination                            |
|                         | Lamp controlgear<br>Part 1: General and safety requirements  | 1. Scope<br>15.1 Wood, cotton, silk, paper and similar fibrous material          | IEC 61347-1:2015;<br>IEC 61347-1:2015/AMD1:2017;<br>EN 61347-1:2015;<br>EN 61347-1:2015/A1:2021;  | Visual examination                            |
|                         | Non-metallic components of electrical equipment  | Glow wire test   | EN IEC 60695-2-10:2021;<br>IEC 60695-2-10:2021;<br>EN IEC 60695-2-11:2021;<br>IEC 60695-2-11:2021,<br>EN IEC 60695-2-12: 2021<br>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;<br>EN 60335-1:2012;<br>EN 60335-1:2012/A15: 2021<br>EN 60335-1:2012/A1/A2/A14:2019;<br>EN 60335-1:2012/A13:2017;<br>EN 60335-1:2012/A12:2017;<br>EN 60335-1:2012/A11:2014;<br>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;<br>IEC 60601-1:2005/AMD1:2012;<br>IEC 60601-1:2005/AMD2:2020;<br>EN 60601-1:2006;<br>EN 60601-1:2006/A2:2021;<br>EN 60601-1:2006/A1:2013;<br>EN 60601-1:2006/A1:2013/AC:2014;<br>EN 60601-1:2006/A12:2014;     |   |
|                         | Luminaires - Part 1: General requirements and tests  |  | IEC 60598-1:2020 Clause 13.3.2;<br>EN IEC 60598-1:2020  |   |
|                         | Lamp controlgear - Part 1: General and safety requirements   |  | IEC 61347-1:2015; Clause18.3;<br>IEC 61347-1:2015/AMD1:2017;<br>EN 61347-1:2015;<br>EN 61347-1:2015/A1:2021;  |   |



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|-------------------------|--|--|--|---|
| Electrical <sup>F</sup> | LED modules for general lighting - Safety specifications   | Glow wire test   | IEC 62031:2018; Clause 17;<br>EN IEC 62031:2020;<br><i>EN IEC 62031:2020/A11:2021</i>  | 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;<br>IEC 61010-1:2010/AMD1:2016;<br>EN 61010-1:2010;<br>EN 61010-1:2010/A1:2019;<br>EN 61010-1:2010/A1:2019/AC:2019; |   |
|                         | Automatic electrical controls - Part 1: General requirements   |  | IEC 60730-1:2013, Clause 21.2;<br>IEC 60730-1/AMD1:2015;<br>IEC 60730-1/AMD2:2020;<br>EN 60730-1:2016;<br>EN 60730-1/A1:2019;                      |   |
| Mechanical <sup>F</sup> | Mechanical, electrical and electronic equipment  | Environmental testing<br>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:<br>0.5 ms to 3 ms<br>D.L. = 500 m/s <sup>2</sup><br>0.5 ms to 30 ms<br>D.L. = 10 m/s <sup>2</sup> |
|                         | 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:<br>5 Hz to 2000 Hz<br>2 m/s <sup>2</sup> to 250 m/s <sup>2</sup>                                  |
|                         | 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:<br>5 Hz to 2000 Hz<br>2 m/s <sup>2</sup> to 200 m/s <sup>2</sup>                                  |
|                         | Railway applications rolling stock equipment   | Shock and vibration tests<br>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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|--|---|--|---|--|
| Electromagnetic Compatibility <sup>F</sup> | Automotive electrical and electronic components | Radiated emission<br>Test Par. 6.5-ALSE method<br>Conducted emission<br>Test Par. 6.4 – Current probe method                 | CISPR 25:2016<br>CISPR 25:2021<br>Reg. UNECE R10:2019 REV.6       | Radiated emission<br>f=30MHz to 5925MHz<br>Conducted emission<br>f=150kHz to 245MHz  |
|  |   | Electrostatic discharge – par. 7.2, contact discharge mode, par. 7.3 air discharge mode<br>Par. 8.4 indirect discharges mode | ISO 10605:2008/Cor.1 2010<br>Reg. UNECE R10:2019 REV.6            | 2kV to 15 kV contact<br>2kV to 25 kV (air)<br>2kV to 20kV (indirect)   |
|  |   | Electrical transient conduction along supply lines only  | ISO 7637-1:2015<br>ISO 7637-2:2011<br>Reg. UNECE R10:2019 REV.6   | Pulse 1<br>Pulse 2a/2b<br>Pulse 3a/3b<br>Pulse 4   |
|  |   | Electrical loads   | ISO 16750-1:2018<br>ISO 16750-2:2012<br>Reg. UNECE R10:2019 REV.6 | Direct current supply voltage;<br>Overvoltage;<br>Momentary drop in supply voltage;<br>Starting profile;<br>Slow increase/decrease of supply voltage;<br>Reset behaviour at voltage drop;<br>Load dump;<br>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 <sup>F</sup> would mean that the laboratory performs this testing at its fixed location.