

ETICS-CoA-002-2018



**ETICS** *European Testing Inspection and Certification System*

# CERTIFICATE OF ACCEPTANCE

## **SGS Belgium N.V. - Division SGS CEBC**

Bld. Internationalelaan, 55/D, Brussels Belgium

has been assessed and determined to fully comply with the requirements of EN-ISO/IEC 17065, PD ECS 050 and the Rules of Procedure relevant to the European Schemes for which the responsible CB is member.

## **SGS Belgium N.V. – Division SGS CEBC**

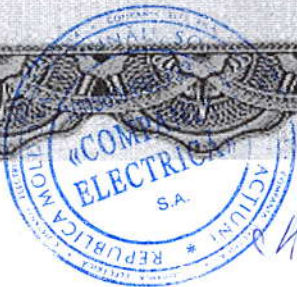
is therefore entitled to operate as Certification Body within the European Schemes ENEC, ENEC+, CCA, CCA EMC, HAR and KMK for the Scope (Product Category(ies) and Standard(s)) as listed in the relevant part of the ETICS Web Site at [www.etics.org](http://www.etics.org).

This certificate remains valid until 15<sup>th</sup> January 2021, at which time it will be reissued by the ETICS Secretary General upon successful completion of the normally scheduled 3-year Reassessment Programme administered by the ETICS.

Brussels, 15 January 2018

*Giancarlo Zappa*

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Giancarlo Zappa, Secretary General







Bijlage bij accreditatie-certificaat  
Annexe au certificat d'accréditation  
Annex to the accreditation certificate  
Beilage zur Akkreditierungszertifikat

## 472-TEST

NBN EN ISO/IEC 17025:2005

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De accreditatie werd uitgereikt aan/ L'accréditation est délivrée à/  
The accreditation is granted to/ Die akkreditierung wurde erteilt für:

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Product/Object	Parameter determined	Reference
<b>Tests on ELECTRICAL Safety</b>		
Electical Cables	Tests electrical safety as detailed in the standard	NBN EN 50396 Non electrical test methods for low voltage energy cables EXCLTests: Test of resistance to hot particles
Electical Cables	Tests electrical safety as detailed in the standard	NBN EN 50525-1 Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 1 : General requirements
Electical Cables	Tests electrical safety as detailed in the standard	NBN EN 50525-2-11 Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 2-11: Cables for general applications - Flexible cables with thermoplastic PVC insulation
Electical Cables	Tests electrical safety as detailed in the standard	NBN EN 50525-2-21 Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 2-21 : Cables for general applications - Flexible cables with crosslinked elastomeric insulation.
Electical Cables	Tests electrical safety as detailed in the standard	NBN EN 50525-2-31 Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 2-31 : Cables for general applications - Single core non-sheathed cables with thermoplastic PVC insulation
Electical Cables	Tests electrical safety as detailed in the standard	NBN EN 50525-2-42 Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 2-42 : Cables for general applications - Single core non-sheathed cables with crosslinked EVA insulation



Product/Object	Parameter determined	Reference
Electrical Cables	Tests electrical safety as detailed in the standard	NBN EN 50525-2-82 Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (Uo/U) - Part 2-82 : Cables for general applications - Cables with crosslinked elastomeric insulation for decorative chains
Electrical Cables	Tests electrical safety as detailed in the standard	NBN EN 50525-3-31 Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V Part 3-31 : Cables with special fire performance - Single core non-sheathed cables with halogen-free thermoplastic insulation, and low emission
Electrical Cables	Tests electrical safety as detailed in the standard	IEC 60227-2 Polyvinylchloride insulated of rated voltages up to and including 450/750V - Part 2 Test methods
Electrical Cables	Tests electrical safety as detailed in the standard	IEC 60227-3 Polyvinylchloride insulated of rated voltages up to and including 450/750V - Non sheathed cables for fixed wiring
Electrical Cables	Tests electrical safety as detailed in the standard	IEC 60227-4 Polyvinylchloride insulated of rated voltages up to and including 450/750V - Sheathed cables for fixed wiring
Electrical Cables	Tests electrical safety as detailed in the standard	IEC 60227-5 Polyvinylchloride insulated of rated voltages up to and including 450/750V - Flexible cables (cords)
Electrical Cables	Tests electrical safety as detailed in the standard	IEC 60245-2 Rubber insulated cables - Rated voltages up to and including 450/750 V – Part 2:Test methods
Electrical Cables	Tests electrical safety as detailed in the standard	IEC 60245-4 Rubber insulated cables - Rated voltages up to and including 450/750 V - Cords and flexible cables
Electrical Cables	Tests electrical safety as detailed in the standard	IEC 60245-6 Rubber insulated cables - Rated voltages up to and including 450/750 V - Arc welding electrode cables
Electrical Cables	Tests electrical safety as detailed in the standard	IEC 60245-8 Rubber insulated cables - Rated voltages up to and including 450/750 V - Cords for applications requiring high flexibility



Product/Object	Parameter determined	Reference
Electromechanical contactors for household and similar purposes	Tests electrical safety as detailed in the standard	IEC NBN EN 61095 Electromechanical contactors for household and similar purposes Only § 9.2.4; 9.2.2.2 To 9.2.2.6; 9.2.6; 9.2.7
Household and similar electrical appliances. - General requirements.	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-1 Household and similar electrical appliances. - General requirements EXCLTests: Abnormal operation; Oxygembomb; Annex F
Household and similar electrical appliances - Particular requirements for vacuum cleaners and water-suction cleaning appliances (IEC 60335-2-2:2009,IDT)	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-2 Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances (IEC 60335-2-2:2009,IDT)
Household and similar electrical appliances - Electric irons	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-3 Household and similar electrical appliances - Electric irons
Household and similar electrical appliances – Cooking ranges, hobs, ovens and similar	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-6 Household and similar electrical appliances – Cooking ranges, hobs, ovens and similar
Household and similar electrical appliances – Shavers, hair clippers	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-8 Household and similar electrical appliances – Shavers, hair clippers
Household and similar electrical appliances – Grills, toasters and similar appliances	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-9 Household and similar electrical appliances – Grills, toasters and similar appliances



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Product/Object	Parameter determined	Reference
Household and similar electrical appliances - Particular requirements for warming plates and similar appliances.	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-12 Household and similar electrical appliances - Safety - Part 2-12: Particular requirements for warming plates and similar appliances.
Household and similar electrical appliances. Deep fat fryers, frying pans, and similar appliances	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-13 Household and similar electrical appliances. Deep fat fryers, frying pans, and similar appliances
Household and similar electrical appliances - Kitchen machines	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-14 Household and similar electrical appliances - Kitchen machines
Household and similar electrical appliances - Appliances for heating liquids	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-15 Household and similar electrical appliances - Appliances for heating liquids
Household and similar electrical appliances - Storage water heaters	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-21 Household and similar electrical appliances - Storage water heaters
Household and similar electrical appliances - Appliances for skin or hair care	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-23 Household and similar electrical appliances - Appliances for skin or hair care
Household and similar electrical appliances - Battery chargers EXCLTests: Mechanical Strength. Vibration test	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-29 Household and similar electrical appliances - Battery chargers EXCLTests: Mechanical Strength. Vibration test



Product/Object	Parameter determined	Reference
Household and similar electrical appliances - Room heaters	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-30 Household and similar electrical appliances - Room heaters
Household and similar electrical appliances - Range hoods EXCLTests: Resistance to heat and fire(Test acc ISO9772)	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-31 Household and similar electrical appliances - Range hoods EXCLTests: Resistance to heat and fire(Test acc ISO9772)
Household and similar electrical appliances - Massage appliances	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-32 Household and similar electrical appliances - Massage appliances
Household and similar electrical appliances - Particular requirements for instantaneous water heaters	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-35 Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters
Household and similar electrical appliances – Commercial el. Ranges ovens and hob elements	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-36 Household and similar electrical appliances – Commercial el. Ranges ovens and hob elements
Household and similar electrical appliances – Commercial electric griddles and griddle grills	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-38 Household and similar electrical appliances – Commercial electric griddles and griddle grills
Household and similar electrical appliances – Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-42 Household and similar electrical appliances – Commercial electric forced convection ovens, steam cookers and steam-convection ovens



Product/Object	Parameter determined	Reference
Household and similar electrical appliances – Clothes dryers and towel rails	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-43 Household and similar electrical appliances – Clothes dryers and towel rails
Household and similar electrical appliances – Commercial Electric grills and toasters EXCLTests: Resistance to heat and fire (Test acc ISO9772)	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-48 Household and similar electrical appliances – Commercial Electric grills and toasters EXCLTests: Resistance to heat and fire (Test acc ISO9772)
Household and similar electrical appliances – Commercial Electric bains-marie	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-50 Household and similar electrical appliances – Commercial Electric bains-marie
Household and similar electrical appliances – Whirlpool baths	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-60 Household and similar electrical appliances – Whirlpool baths
Household and similar electrical appliances - Particular requirements for commercial dispensing appliances and vending machines	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-75 Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines
Household and similar electrical appliances – Fans	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-80 Household and similar electrical appliances – Fans





Product/Object	Parameter determined	Reference
Household and similar electrical appliances – Commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-89 Household and similar electrical appliances – Commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor EXCLTests: Construction. Test for flammable refrigerants(IEC60079-15)
Household and similar electrical appliances.- Gas, oil and solid-fuel burning appliances having electrical connections	Tests electrical safety as detailed in the standard	IEC NBN EN 60335-2-102 Household and similar electrical appliances.- Gas, oil and solid-fuel burning appliances having electrical connections
Boxes and enclosures for electrical accessories for household and similar fixed electrical installations -	Tests electrical safety as detailed in the standard	IEC NBN EN 60670-1 Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 1: General requirements EXCL. § 21
Switches for household and similar fixed-electrical installations - General requirements	Tests electrical safety as detailed in the standard	IEC NBN EN 60669-1 Switches for household and similar fixed-electrical installations - Part 1: General requirements EXCLTests: Inspection and chemical tests on metals of current carrying parts. EXCL.§ 18; 19; 26
Switches for household and similar fixed electrical installations - Electronic switches	Tests electrical safety as detailed in the standard	NBN EN 60669-2-1 Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic switches EXCLTests: § 26.1.1;26.1.2;26.1.3; 26.1.4; 26.1.5; 18.102;13.103; 101;102



Product/Object	Parameter determined	Reference
Switches for household and similar fixed electrical installations - Electromagnetic remote-control switches (RCS)	Tests electrical safety as detailed in the standard	IEC NBN EN 60669-2-2 Switches for household and similar fixed electrical installations - Part 2: Particular requirements -- Section 2: Electromagnetic remote-control switches (RSC) EXCLTests: § 26 ; 101; 102; 13.103; 18.102
Switches for household and similar fixed electrical installations - Time delay switches (TDS)	Tests electrical safety as detailed in the standard	IEC NBN EN 60669-2-3 Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time delay switches (TDS) EXCLTests: § 26 ; 101; 102; 13.103; 18.102
Switches for household and similar fixed electrical installations - Isolating switches	Tests electrical safety as detailed in the standard	IEC NBN EN 60669-2-4 Switches for household and similar fixed electrical installations - Part 2-4: Particular requirements - Isolating switches EXCLTests: § 17; 18; 19; 26 ; 16.101; 18.101; 22.5 to 22.7
Plugs and socket-outlets for household and similar purposes -	Tests electrical safety as detailed in the standard	IEC NBN EN 60884-1 Plugs and socket-outlets for household and similar purposes - Part 1: General requirements . EXCL. § 11.5; 12.2; 14.23.1; 20; 21
Coduit systems for cable management - Part 1:General requirments	Tests electrical safety as detailed in the standard	NBN EN 61386-1 Coduit systems for cable management - Part 1:General requirments
Coduit systems for cable management - Part 21:Particular requirments - Rigid conduit systems	Tests electrical safety as detailed in the standard	NBN EN 61386-21 Coduit systems for cable management - Part 21:Particular requirments - Rigid conduit systems
Coduit systems for cable management - Part 22:Particular requirments - Pliable conduit systems	Tests electrical safety as detailed in the standard	NBN EN 61386-22 Coduit systems for cable management - Part 22:Particular requirments - Pliable conduit systems





Product/Object	Parameter determined	Reference
Luminaires – General requirements and tests	Tests electrical safety as detailed in the standard	IEC NBN EN 60598-1 Luminaires – Part 1: General requirements and tests EXCLTests: Protective measure against UV radiation; Rough service luminaires (Vibration test)
Luminaires - Fixed general purpose luminaires	Tests electrical safety as detailed in the standard	IEC NBN EN 60598-2-1 Luminaires - Part 2: Particular requirements Section 1: Fixed general purpose luminaires
Luminaires - Recessed luminaires	Tests electrical safety as detailed in the standard	IEC NBN EN 60598-2-2 Luminaires - Part 2 - Particular requirements Section 2: Recessed luminaires
Luminaires - Luminaires for road and street lighting	Tests electrical safety as detailed in the standard	IEC NBN EN 60598-2-3 Luminaires - Part 2 - Particular requirements Section 3: Luminaires for road and street lighting
Luminaires - Portable general purpose luminaires	Tests electrical safety as detailed in the standard	IEC NBN EN 60598-2-4 Luminaires - Part 2 - Particular requirements Section 4: Portable general purpose luminaires
Luminaires - Floodlights	Tests electrical safety as detailed in the standard	IEC NBN EN 60598-2-5 Luminaires - Part 2 - Particular requirements Section 5: Floodlights
Luminaires - Luminaires with built-in transformers for filament lamps	Tests electrical safety as detailed in the standard	IEC NBN EN 60598-2-6 Luminaires - Part 2: Particular requirements Section 6: Luminaires with built-in transformers for filament lamps
Luminaires – Portable luminaires for garden use	Tests electrical safety as detailed in the standard	IEC NBN EN 60598-2-7 Luminaires – Part 2 – Particular requirements Section 7: Portable luminaires for garden use
Luminaires - Portable luminaires for children	Tests electrical safety as detailed in the standard	IEC NBN EN 60598-2-10 Luminaires - Part 2 - Particular requirements Section 10: Portable luminaires for children EXCLTests: Burning behavior for pile surface or textile surface
Luminaires - Aquarium luminaires	Tests electrical safety as detailed in the standard	IEC NBN EN 60598-2-11 Luminaires - Part 2: Particular requirements Section 11: Aquarium luminaires



Product/Object	Parameter determined	Reference
Luminaires - Mains socket-outlet mounted nightlights	Tests electrical safety as detailed in the standard	NBN EN 60598-2-12 Luminaires - Part 2 - Particular requirements Section 12: Mains socket-outlet mounted nightlights
Luminaires - Ground recessed luminaires	Tests electrical safety as detailed in the standard	NBN EN 60598-2-13 Luminaires - Part 2 - Particular requirements Section 13: Ground recessed luminaires
Luminaires - Lighting chains	Tests electrical safety as detailed in the standard	IEC NBN EN 60598-2-20 Luminaires - Part 2 - Particular requirements Section 20: Lighting chains
Lamp controlgear - General and safety requirements	Tests electrical safety as detailed in the standard	61347-1 Lamp controlgear - Part 1: General and safety requirements
Lamp controlgear - Particular requirements for miscellaneous electronic circuits used with luminaires	Tests electrical safety as detailed in the standard	61347-2-11 Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires
Lamp controlgear - Particular requirements for d.c. Or a.c. Supplied electronic controlgear for LED modules	Tests electrical safety as detailed in the standard	61347-2-13 Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Tests electrical safety as detailed in the standard	NBN EN UL CSA 61010-1 Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
Medical electrical equipment - General requirements for basic and essential performance	Tests electrical safety as detailed in the standard	IEC NBN EN 60601-1 CAN/CSA C22.2 N°60601-1 ANSI/AAMI ES 60601-1 Medical electrical equipment - Part 1: General requirements for basic and essential performance EXCLTests: § 25; 29; 36; 44





Product/Object	Parameter determined	Reference
Medical electrical equipment - Safety requirements for medical electrical systems	Tests electrical safety as detailed in the standard	IEC NBN EN 60601-1-1 Medical electrical equipment - Part 1-1: General requirements for safety - Collateral standard: Safety requirements for medical electrical systems
Medical electrical equipment - Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment	Tests electrical safety as detailed in the standard	IEC NBN EN 60601-2-22 Medical electrical equipment - Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment
Medical electrical equipment - Particular requirements for the basic safety and essential performance of electrocardiographs	Tests electrical safety as detailed in the standard	NBN EN 60601-2-25 Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs
Medical Electrical Equipment Particular Requirements for the basic safety and essential performance of electroencephalographs	Tests electrical safety as detailed in the standard	IEC NBN EN 60601-2-26 Medical Electrical Equipment Part 2-26: Particular Requirements for the basic safety and essential performance of electroencephalographs
Medical electrical equipment - Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment	Tests electrical safety as detailed in the standard	IEC NBN EN 60601-2-27 Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment



Product/Object	Parameter determined	Reference
Safety of information technology equipment	Tests electrical safety as detailed in the standard	IEC NBN EN 60950 Safety of information technology equipment EXCLTests: § 2.10.6.6; 4.3.12; 4.3.13; 4.7.3; 4.2.8; 7
Information technology equipment - Safety - Part 1: General requirements	Tests electrical safety as detailed in the standard	IEC NBN EN UL CAN/CSA C22.2 60950-1 Information technology equipment - Safety - Part 1: General requirements EXCLTests: 4.2.8; 4.3.12; 4.3.13; 4.6.2; Materials, tests see Annex A
Uninterruptible power systems (UPS) - General and safety requirements for UPS	Tests electrical safety as detailed in the standard	IEC 62040-1 Uninterruptible power systems (UPS) - Part 1: General and safety requirements for UPS
Uninterruptible power systems (UPS) - General and safety requirements for UPS used in operator access areas	Tests electrical safety as detailed in the standard	IEC NBN EN 62040-1-1 Uninterruptible power systems (UPS) - Part 1-1: General and safety requirements for UPS used in operator access areas
Uninterruptible power systems (UPS) - General and safety requirements for UPS used in restricted access locations	Tests electrical safety as detailed in the standard	IEC NBN EN 62040-1-2 Uninterruptible power systems (UPS) - Part 1-2: General and safety requirements for UPS used in restricted access locations
Low-voltage switchgear and controlgear assemblies - General rules	Tests electrical safety as detailed in the standard	IEC NBN EN 61439-1 Low-voltage switchgear and controlgear assemblies - Part 1: General rules Only Clauses § 8.2.1; 8.2.2; 8.2.3; 8.3.1; 8.3.2; 8.3.3; 8.4



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Product/Object	Parameter determined	Reference
Low-voltage switchgear and controlgear assemblies Power switchgear and controlgear assemblies	Tests electrical safety as detailed in the standard	IEC NBN EN 61439-2 Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies Only Clauses § 8
Low-voltage switchgear and controlgear assemblies Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use - Distribution boards	Tests electrical safety as detailed in the standard	IEC NBN EN 61439-3 Low-voltage switchgear and controlgear assemblies - Part 3: Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use - Only § 8
Safety of power transformers, power supplies, reactors and similar products - General requirements and tests	Tests electrical safety as detailed in the standard	IEC NBN EN 61558-1 Safety of power transformers, power supplies, reactors and similar products - Part 1: General requirements and tests
Safety of power transformers, power supply units and similar - Particular requirements for separating transformers for general use	Tests electrical safety as detailed in the standard	NBN EN 61558-2-1 Safety of power transformers, power supply units and similar - Part 2.1: Particular requirements for separating transformers for general use



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Product/Object	Parameter determined	Reference
Safety of power transformers, power supply units and similar - Particular requirements and tests for control transformers and power supplies incorporating control transformers.	Tests electrical safety as detailed in the standard	NBN EN 61558-2-2 Safety of power transformers, power supply units and similar - Part 2.2: Particular requirements and tests for control transformers and power supplies incorporating control transformers.
Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers	Tests electrical safety as detailed in the standard	IEC NBN EN 61558-2-4 Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transf
Safety of power transformers, power supply units and similar - Particular requirements for shaver transformers and shaver supply units.	Tests electrical safety as detailed in the standard	NBN EN 61558-2-5 Safety of power transformers, power supply units and similar - Part 2.5: Particular requirements for shaver transformers and shaver supply units.



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Product/Object	Parameter determined	Reference
Safety of power transformers, power supply units and similar - Particular requirements for safety isolating transformers for general use	Tests electrical safety as detailed in the standard	IEC NBN EN 61558-2-6 Safety of power transformers, power supply units and similar - Part 2 Particular requirements for safety isolating transformers for general use
Safety of power transformers, power supply units and similar devices - Particular requirements for auto-transformers for general use.	Tests electrical safety as detailed in the standard	NBN EN 61558-2-13 Safety of power transformers, power supply units and similar devices - Part 2-13: Particular requirements for auto-transformers for general use.
Safety of transformers, reactors, power supply units and similar products for voltages up to 1 100 V - Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units	Tests electrical safety as detailed in the standard	IEC 61558-2-16 Safety of transformers, reactors, power supply units and similar products for voltages up to 1 100 V - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units
Safety of power transformers, power supply units and similar -	Tests electrical safety as detailed in the standard	NBN EN 61558-2-17 Safety of power transformers, power supply units and similar - Part 2.17:
Electical Cables	Tests electrical safety as detailed in the standard	IEC NBN EN UL CSA 60065 Audio, video and similar electronic apparatus - Safety requirements EXCLTests: Annex A: 8.18; 7; 6.1



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	Product/Object	Parameter determined	Reference
<b>GENERIC Tests</b>			
G60525/W	All, except power cables and cords	Resistance to harmful ingress of water (IPx1-IPx8) Degree protection against water// max. LengthXHeightXWidth : IPX1&2 1mx1mx1m ; IPX3&4 1mx1mx1m ; IPX5&6 2mx1,5mx2m ; IPX7&8 Diam 0,5Mx1,3mlenght	IEC / EN / NBN EN 60529
G60525/O	All, except power cables and cords	Degree of protection against access to hazardous parts and against solid foreign objects (IP1x- IP6x) Degree protection // max. LengthXDiam : IP5X&6x 1,2mx07m	IEC / EN / NBN EN 60529
G60695.1 1.5	All, except power cables and cords and Electrical equipt for medical use	Fire hazard testing; Needle Flame	IEC / EN / NBN EN 60695-11-5
G60695.1 1.4	Household, Electrical equipt for medical use, UPS, IT & office equipment, Measuring instruments, Electronic appliances	Fire hazard testing. Test flames - 50W	IEC / EN / NBN EN 60695-11-10
G60695.1 1.3	IT & office equipment	Fire hazard testing. Test flames - 500W	IEC / EN / NBN EN 60695-11-20
G60695.1 1.2	Power cables and cords	Fire hazard testing. Test flames - 1000W	IEC / EN / NBN EN 60695-2-4
G60695.2 10	All, except power cables and cords and equipt for medical use.	Fires hazard testing. Glow wire	IEC / EN / NBN EN 60695-2-10
G60695.1 0.2	All, except power cables and cords	Fire hazard testing; Ball pressure testing	IEC / EN / NBN EN 60695-10-2
G62262	All, except power cables and cords	Impact test (Code IK01 to IK10)	IEC / EN / NBN EN 62262



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Signatory to EA, ILAC and IAF  
Multilateral Agreements

Organisme belge d'Accréditation  
Belgische Accreditatie-instelling  
Belgian Accreditation Body

Annexe au certificat d'accréditation  
Bijlage bij accreditatie-certificaat  
Annex to the accreditation certificate  
Beilage zur Akkreditierungszertifikat

## 226-TEST

NBN EN ISO/IEC 17025:2005

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Vorsitzende des Akkreditierungsbüro

L'accréditation est délivrée à/ De accreditatie werd uitgereikt aan/  
The accreditation is granted to/ Die akkreditierung wurde erteilt für:

**LABORATOIRE DE PHOTOMETRIE DE R-TECH**  
Rue de Mons, 3  
4000 LIEGE



Secrétariat :  
Service public fédéral Economie,  
P.M.E., Classes moyennes et Energie  
Direction générale de la Qualité et de la Sécurité  
Division Qualité et Innovation  
Bd du Roi Albert II 16  
1000 Bruxelles  
Website : <http://economie.fgov.be>  
Numéro d'entreprise : 0314.595.348

Accréditation BELAC Accreditation

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E-mail: [Belac@economie.fgov.be](mailto:Belac@economie.fgov.be)

Secretariaat  
Federale Overheidsdienst Economie,  
K.M.O., Middenstand en Energie  
Algemene Directie Kwaliteit en Veiligheid  
Afdeling Kwaliteit en Innovatie  
Koning Albert II-laan 16  
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Website: <http://economie.fgov.be>  
Ondernemingsnummer: 0314.595.348

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Code essai <i>Test Code</i>	Echantillons <i>Samples</i>	Caractéristique mesurée Gamme de mesure <i>Measurement Measurement range</i>	Description méthode d'essai Equipement <i>Testing Methodology Description Equipment</i>
PTP-01	Lampes à incandescence ou à décharge pour luminaires. <i>Incandescent or high intensity discharge lamp for luminaires.</i>	Flux lumineux exprimé en lumen (lm)  <i>Luminous flux in lumen (lm)</i>	Mesure du flux lumineux en sphère d'Ulbricht selon la norme de référence EN 13032-1 § 6.1.2. Pour toutes lampes sauf les LED (Solid State Lighting) <i>Luminous flux measurement with Ulbricht's sphere according to EN 13032 § 6.1.2 Standard for all light sources except LED (Solid State Lighting)</i>
PTP-01	Sources lumineuses de type LED pour luminaires. <i>Led light source for luminaires.</i>	Flux lumineux exprimé en lumen (lm)  <i>Luminous flux in lumen (lm)</i>	Mesure du flux lumineux en sphère d'Ulbricht selon la norme de référence EN 13032-1 § 6.1.2 et IES LM79-08. Pour LEDs (Solid State Lighting) <i>Luminous flux measurement with Ulbricht's sphere according to EN 13032 § 6.1.2 and IES LM79-08 Standard. For LED (Solid State Lighting)</i>
PTP-02	Luminaires pour lampes à incandescence ou à décharge  <i>Luminaires for incandescent, HID lamp</i>	Distribution des intensités lumineuses exprimées en candela (cd)  <i>Light distribution in candela (cd)</i>	Relevé photométrique au goniophotomètre selon la norme de référence EN 13032-1 et CIE 121-1996 Pour toutes lampes sauf les LED (Solid State Lighting) <i>Light distribution measurement with gonio according to EN 13032-1 and CIE 121-1996 Standard for all light sources except LED (Solid State Lighting)</i>
PTP-02	Luminaires à sources lumineuses de type LED pour luminaires. <i>Luminaires for LED light sources.</i>	Distribution des intensités lumineuses exprimées en candela (cd)  <i>Light distribution in candela (cd)</i>	Relevé photométrique au goniophotomètre selon la norme de référence EN 13032-1, CIE 121-1996 et IES LM79-08 Pour les LED (Solid State Lighting) <i>Light distribution measurement with gonio according to EN 13032-1, CIE 121-1996 and IES LM79-08 Standard. For LED (Solid State Lighting)</i>



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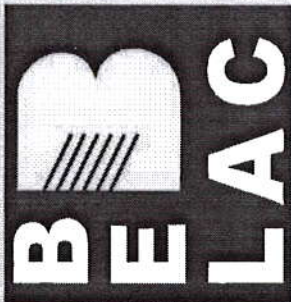


Code essai <i>Test Code</i>	Echantillons <i>Samples</i>	Caractéristique mesurée Gamme de mesure <i>Measurement Measurement range</i>	Description méthode d'essai Équipement <i>Testing Methodology Description Equipment</i>
PTP-09	Lampes à incandescence ou à décharge pour luminaires ou luminaires associés.  <i>Incandescent or high intensity discharge lamp for luminaires or associated luminaires.</i>	Données colorimétriques : IRC, T° de couleur, coordonnées trichromatiques, données spectrales (domaine du visible)  <i>Colorimetric values, CRI, CCT, tristimulus values, spectrum (visible range)</i>	Relevé colorimétrique en sphère via spectromètre selon la norme de référence EN 13032-1 et CIE 13.3, 15, 63, 121-1996 S014 (1,2 et 3) Pour équipements lumineux sauf ceux incluant des LED (Solid State Lighting)  <i>Colorimetric measurement with spectrometric sphere to EN 13032-1 and CIE 13.3, 15, 63, 121-1996 S014 (1,2 et 3) Standard for all light equipment except LED (Solid State Lighting)</i>
PTP-09	Sources lumineuses de type LED pour luminaires ou luminaires associés.  <i>Led light source for luminaires or associated luminaires.</i>	Données colorimétriques : IRC, T° de couleur, coordonnées trichromatiques, données spectrales (domaine du visible)  <i>Colorimetric values, CRI, CCT, tristimulus values, spectrum (visible range)</i>	Relevé colorimétrique en sphère et spectromètre selon la norme de référence EN 13032-1 et CIE 13.3, 15, 63, 121-1996 S014 (1,2 et 3) et IES LM79-08 pour équipements lumineux à LED (Solid State Lighting)  <i>Colorimetric measurement with spectrometric sphere according to EN 13032-1 and CIE 13.3, 15, 63, 121-1996 S014 (1,2 et 3) and IES LM79-08 Standard. For LED light equipment (Solid State Lighting)</i>



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Organisme belge d'Accréditation  
 Belgische Accreditatieinstelling  
 Belgische Akkreditierungsstelle  
 Belgian Accreditation Body

Signatory to EA, ILAC and IAF  
 Multilateral Agreements

# Accreditation Certificate No. 226-TEST

In compliance with the provisions of the Royal Decree of 31 January 2006 setting up BELAC, the Accreditation Board hereby declares, that the test laboratory

**LABORATOIRE DE PHOTOMETRIE DE R-TECH**  
**Rue de Mons, 3**  
**4000 LIEGE - Belgium**

has the competence to perform the tests as described in the annex which is an integral part of the present certificate, in accordance with the requirements of the standard NBN EN ISO/IEC 17025:2005. The present accreditation is the subject of regular surveillance in order to confirm the compliance with the accreditation conditions.

The Chair of the Accreditation Board BELAC,



Issue date : **2016-05-19**

Validity date : **2021-05-27**

Original version of this certificate is in French.

**Nicole MEURÉE-VANLAETHEM**



## SUPERVISED MANUFACTURER'S TESTING

Report nr. CEBEC-002B

SGS Belgium NV

Division SGS CEBEC

Business Riverside Park  
Bld Internationalaalaan, 55 Build. D  
B-1070 Brussels - Belgium

Acting as national Certification Body participation in the Certification Bodies Scheme (CB Scheme) and the European Certification System (ECS) has recognized the following laboratory as

### SMT laboratory nr. CEBEC-002

Operating in the framework of the IECEE CB-scheme and ECS certification system (CCA and ENEC).

#### Approved laboratory, name and address:

Service Laboratoire  
R-TECH S.A.  
Rue de Mons, 3  
BE-4000 LIEGE


#### Manufacturing factories:

European Factories  
Belonging to the  
Schröder Group G.I.E.

#### Products covered by the contract:

<u>Category</u>	<u>Standards</u>	<u>Products</u>
LITE	IEC/EN 60598-1 IEC/EN 60598-2-1 IEC/EN 60598-2-3 IEC/EN 60598-2-5 IEC/EN 60598-2-13	Luminaires Fixed general purpose luminares Luminares for road and street lighting Floodlights Ground recessed luminares

Brussels, 2013-02-01

  
ir. C. Lana,  
Certification Manager



SGS Belgium NV

Division SGS CEBEC Bld Internationalaalaan, 55 Build. D B-1070 Bruxelles/Brussel tel. +32 (0) 556 00 20 fax: +32 (0) 556 00 38 www.sgs.com  
Siège Social/Maatschappelijke Zetel: SGS House Noorderlaan 87 B-2030 Antwerpen

Member of the SGS Group (Société Générale de Surveillance)

RPM/RPR Anvers/Antwerpen TVA/BTW BE 404.882.750 Dexia 550-3560001-93