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Annex to the accreditation certificate  
Beilage zur Akkreditierungszertifikat

# 003-TEST

EN ISO/IEC 17025:2017

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De accreditatie werd uitgereikt aan / L'accréditation est délivrée à /  
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**ASSOCIATION NATIONALE POUR LA PROTECTION  
CONTRE L'INCENDIE ET LE VOL  
ANPI ASBL  
Granbonpré 1  
Ottignies-Louvain-la-Neuve**

Sites d'activités / Activiteitencentra / Sites of activities / Standorte mit aktivitäten:

ANPI LLN	Parc Scientifique Fleming Granbonpré 1 1348 Ottignies-Louvain-la-Neuve
LENS	Rue du Calvaire 1 7870 Lens

PRODUCTS	TYPES OF TESTING	TEST METHODS	SITES OF ACTIVITY
<b>1. Testing standards</b>			
<b>Environmental testing</b>			
Electronical, communication, Electrical, Mechanical, Electromechanical material	<b>Climatic solicitations</b>	<b>LAB COM PROC</b>	ANPI, LLN
	Cold	IEC 60068-2-1	
	Dry Heat	IEC 60068-2-2	
	Damp heat, steady state	IEC 60068-2-3	
	Salt mist	IEC 60068-2-11	
	Change of temperature	IEC 60068-2-14 (Tests Na and Nb)	
	Damp heat, cyclic (12 + 12h cycle)	IEC 60068-2-30	
	Sulphur dioxide test for contacts and connections	IEC 60068-2-42	
	Salt mist, cyclic (sodium chloride solution)	IEC 60068-2-52	
	Damp heat, steady state, primarily for equipment	IEC 60068-2-56	
	Cold and dry heat tests	IEC 60068-3-1	
	Damp heat, steady state	IEC 60068-2-78	
	Corrosion tests in artificial atmospheres - salt spray tests	ISO 9227 (only Neutral Spray (NSS))	
	<b>Mechanical solicitations</b>	<b>LAB COM PROC</b>	
	Vibration (sinusoidal)	IEC 60068-2-6	
	Shock	IEC 60068-2-27	
	Rough handling shocks, primarily for equipment-type specimens	IEC 60068-2-31	
	Free fall	IEC 60068-2-32	
	Vibration, broadband random and guidance	IEC 60068-2-64	
	Hammer tests	IEC 60068-2-75	
	<b>Enclosure solicitations</b>	<b>LAB ELS PROC</b>	
Degrees of protection provided by enclosures (IP Code)	IEC/EN 60529: Only: - IPX2 - IPX3 - IPX4 - IPX7 - IP2X - IP3X - IP4X - IP5X - IP6X		
Test R and guidance: Water	IEC 60068-2-18: Only: - IPX2 - IPX4 - IPX7		
Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	IEC/EN 62262: Only: - IK04 - IK06 - IK07 - IK08		
Alarm Systems	<b>Climatic solicitations</b>	<b>LAB BIS PROC</b>	
	Environmental test methods for intruder, hold up, cctv, access control and social alarm systems	EN 50130-5	

PRODUCTS	TYPES OF TESTING	TEST METHODS	SITES OF ACTIVITY
<b>EMC testing</b>			
<b>Electronical, communication, Electrical, Electromechanical material</b> Single-phase equipment (three-phase excluded)	<b>EMC immunity</b>	<b>LAB EMC PROC</b>	ANPI, LLN
	Overview of IEC 61000-4 series	IEC/EN 61000-4-1	
	Electrostatic discharge immunity	IEC/EN 61000-4-2	
	Radiated, radio-frequency, electromagnetic field immunity	IEC/EN 61000-4-3	
	Electrical fast transient/burst immunity	IEC/EN 61000-4-4	
	Surge immunity	IEC/EN 61000-4-5	
	Immunity to conducted disturbances, induced by radio-frequency fields	IEC/EN 61000-4-6	
	Power frequency magnetic field immunity	IEC/EN 61000-4-8	
	Voltage dips, short interruptions and voltage variations immunity	IEC/EN 61000-4-11	
	Generic standards - Immunity standard for residential, commercial and light-industrial environments	IEC/EN 61000-6-1	
	Generic standards - Immunity standard for industrial environments	IEC/EN 61000-6-2	
	<b>EMC emission</b>	<b>LAB EMC PROC</b>	
	Methods of measurement of disturbances and immunity - Conducted disturbance measurements	EN 55016-2-1 CISPR 16-2-1	
	Methods of measurement of disturbances and immunity - Radiated disturbance measurements	EN 55016-2-3 CISPR 16-2-3	
	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	IEEE/ANSI C63.4: limited to 6 GHz measurement.	
	Limits for harmonic current emissions (equipment input current $\leq$ 16 A per phase)	IEC/EN 61000-3-2	
Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current $\leq$ 16 A per phase and not subject to conditional connection	IEC/EN 61000-3-3		
Generic standards - Emission standard for residential, commercial and light-industrial environments	IEC/EN 61000-6-3		
Generic standards - Emission standard for industrial environments	IEC/EN 61000-6-4		
<b>Industrial, scientific and medical equipment</b>	<b>EMC emission</b>	<b>LAB EMC PROC</b>	
Radio-frequency disturbance characteristics - Limits and methods of measurement	EN 55011 CISPR 11 (not Gp 2 if f internal > 400 MHz)		
<b>Information technology equipment &amp; multimedia</b>	<b>EMC emission</b>	<b>LAB EMC PROC</b>	
Radio disturbance characteristics - Limits and methods of measurement	EN 55022 CISPR 22		
Electromagnetic compatibility of multimedia equipment - Emission Requirements	EN 55032 CISPR 32		
Radio Frequency devices: General Unintentional Radiators	FCC Part 15 subpart A and B: limited to 6 GHz measurement.		
<b>EMC immunity</b>	<b>LAB EMC PROC</b>		
Immunity characteristics - Limits and methods of measurement	EN 55024 & CISPR 24		

PRODUCTS	TYPES OF TESTING	TEST METHODS	SITES OF ACTIVITY
Electric tools and similar apparatus	EMC emission	LAB EMC PROC	
	Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	EN 55014-1 & CISPR 14-1: without the discontinuous disturbances	
	EMC immunity	LAB EMC PROC	
	Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard	EN 55014-2 & CISPR 14-2	
Alarm Systems	EMC immunity	LAB EMC PROC	
	Immunity Requirements for components of fire, intruder, hold up, cctv, access control and social alarm systems	EN 50130-4 <i>(The last version of this standard is applicable except if the product standard refers specifically to another version)</i>	
Electric tools and similar apparatus	EMC emission	LAB EMC PROC	
	Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	EN 55014-1 & CISPR 14-1: without the discontinuous disturbances	
	EMC immunity	LAB EMC PROC	
	Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard	EN 55014-2 & CISPR 14-2	
<b>Chemical testing</b>			
Plastics	Chemical analysis	LAB COM PROC	ANPI, LLN
	Polymers/resins in the liquid state or as emulsions or dispersions – Determination of viscosity using a rotational viscometer with defined shear rate	ISO 3219	
Surface active agents	Chemical analysis	LAB COM PROC	
	Determination of surface tension by drawing up liquid films	ISO 304	
The test methods identified above can be used in the context of the product standards listed below			

PRODUCTS	TYPES OF TESTING	TEST METHODS	SITES OF ACTIVITY
<b>2. Product standards</b>			
Railway equipment	Environmental & EMC testing	LAB EMC PROC LAB COM PROC <i>(The last version of those standards are applicable except if a previously version is required by the customer)</i>	ANPI, LLN
	Rolling stock - Electronic equipment	EN 50155: For climatic, vibration, shock, EMC and electrical tests	
	Equipements Electroniques utilisés sur le matériel roulant - Conditions particulières d'application à la SNCF de la norme NF EN 50155	STM-E-001: For EMC and electrical tests.	
	Emission and immunity of the signalling and telecommunications apparatus	EN 50121-4: Pulse magnetic field immunity test excluded; Power frequency magnetic field immunity test excluded; Conducted, common mode disturbances immunity test excluded (according to IEC 61000-4-16).	
	Rolling stock - Apparatus	EN 50121-3-2 (except testing according to EN61000-4-30)	
	Rolling stock equipment - Shock and vibration	EN 61373	
Medical equipment	EMC testing	LAB EMC PROC	ANPI, LLN
	Electromagnetic disturbances: Immunity and emission	IEC 60601-1-2: no test possible on the equipments of group 2 (RMN, diathermie, hyperthermy, HF surgical); no test possible on the lighting equipment; immunity test EFT not possible on the equipment with multiple coupling points	

PRODUCTS	TYPES OF TESTING	TEST METHODS	SITES OF ACTIVITY
<b>Fire prevention and damage restriction material</b>	<b>Performance &amp; endurance</b>	<b>LAB BFS PROC</b>	ANPI, LLN
Control and indicating equipment	Examination of the informations provided by the manufacturer	EN 54-2	
Power supply equipment	Functional testing	EN 54-4	
Heat detectors - Point heat detectors	Environmental testing according to climatic and mechanical solicitations	EN 54-5	
Smoke detectors - Point smoke detectors that operate using scattered light, transmitted light or ionization	EMC testing	EN 54-7 (only closed detector)	
Manual call points		EN 54-11	
Compatibility and connectability assessment of system components		EN 54-13 NTN 179-L	
Voice alarm control and indicating equipment		EN 54-16	
Short-circuit isolators		EN 54-17	
Input/output devices		EN 54-18	
Loudspeakers		EN 54-24	
Components using radio links		EN 54-25	
Multi-sensor fire detectors - Point detectors using a combination of smoke and heat sensors		EN 54-29	
Smoke alarm devices		CEA 4021 EN 14604 NTN167-L	
<b>Manual means for extinction</b>	<b>Performance &amp; endurance</b>	<b>LAB BFS PROC</b>	ANPI, LLN + LENS
Portable fire extinguishers	Dielectric test Fire performance Corrosion	EN 3-7 only: - \$9 - \$15	
Mobile fire extinguishers		EN 1866-1 only: - \$7.3 - \$8	
Fire blankets	General performance Fire performance	EN 1869	

PRODUCTS	TYPES OF TESTING	TEST METHODS	SITES OF ACTIVITY
Automatic systems for extinction	Performance & endurance	LAB BFS PROC	ANPI, LLN
Electrical automatic control and delay devices	Functional testing	EN 12094-1	
Manual triggering and stop devices	EMC testing Climatical testing Mechanical testing	EN 12094-3 (except § 4.2 and § 5.2)	
Sprinklers	Functional testing Operating temperatures Water flow and distribution	EN 12259-1 (only §4.4, 4.5 and 4.6) ( only 0,5 and 3 bar) NTN ANPI 126 (lab developed and validated methode)	
Extinguishing module for commercial kitchens	Examination of the informations provided by the manufacturer	EN17446 (§4 & §5 & §6)	
	Fire performance on deep fat fryer	EN17446 (§7.2.2)	
	Splash test on deep fat fryer	EN17446 (§7.3 & §7.3.2 & §7.3.3)	
	Fire performance on Hood	EN17446 (§7.4)	
	Fire performance on Plenum	EN17446 (§7.5)	
	Distribution test	EN17446 (§7.6)	
Specifications for automatic triggering of extinguishing modules for commercial kitchens  Part L: Complementary requirements to EN 17446	Examination of the informations provided by the manufacturer Fire performance	NTN 185-L	

PRODUCTS	TYPES OF TESTING	TEST METHODS	SITES OF ACTIVITY
<b>Fire extinguishing media</b>	<b>Performance &amp; endurance</b>	<b>LAB BFS PROC</b>	ANPI, LLN + LENS
Medium expansion foam concentrates for surface application to water-immiscible liquids	Examination of the informations provided by the manufacturer Functional testing	EN 1568-1	
High expansion foam concentrates for surface application to water-immiscible liquids	Climatical testing Chemical analysis: - Sediment in the foam concentrate	EN 1568-2	
Low expansion foam concentrates for surface application to water-immiscible liquids	- Freezing point - Viscosity of the foam concentrate	EN 1568-3	
Low expansion foam concentrates for surface application to water-miscible liquids	- pH of the foam concentrate - Surface tension of the foam solution - Stability/separation test of foam concentrate - Determination of expansion/drainage time - Film forming determination (only -3)	EN 1568-4	
<b>Fire prevention and damage restriction material</b>	<b>Performance &amp; endurance</b>	<b>LAB BIS PROC</b>	
Alarm Systems	Examination of the informations provided by the manufacturer Functional testing	EN 50131-1 T031 CEB/ BEC (§5 & §6) T033 CEB/ BEC (§5 & §6)	
Passive infrared detectors	Examination of the informations provided by the manufacturer Functional testing	EN 50131-2-2	
	Environmental testing according to climatic and mechanical solicitations EMC testing	T031 CEB/ BEC (§7.1)	
	Examination of the informations provided by the manufacturer Functional testing	T033 CEB/ BEC (§7.1)	
Passive infrared and microwave detectors	Examination of the informations provided by the manufacturer Functional testing	EN 50131-2-4	
	Environmental testing according to climatic and mechanical solicitations EMC testing	T031 CEB/ BEC (§7.3)	
	Examination of the informations provided by the manufacturer Functional testing	T033 CEB/ BEC (§7.3)	



PRODUCTS	TYPES OF TESTING	TEST METHODS	SITES OF ACTIVITY
Active infrared detector	Examination of the informations provided by the manufacturer Functional testing Environmental testing according to climatic and mechanical solicitations EMC testing	T031 CEB/ BEC (§7.10)	ANPI, LLN
Opening contacts (Magnetic)	Examination of the informations provided by the manufacturer Functional testing Environmental testing according to climatic and mechanical solicitations EMC testing	EN 50131-2-6	
		T031 CEB/ BEC (§7.5)	
	Examination of the informations provided by the manufacturer Functional testing	T033 CEB/ BEC (§7.5)	
Glass break detectors (acoustic)	Examination of the informations provided by the manufacturer Functional testing	T033 CEB/ BEC (§7.6)	
Glass break detectors (passive)	Examination of the informations provided by the manufacturer Functional testing	T033 CEB/ BEC (§7.7)	
Glass break detectors (active)	Examination of the informations provided by the manufacturer Functional testing	T033 CEB/ BEC (§7.9)	
Control and indicating equipment	Examination of the informations provided by the manufacturer Functional testing Environmental testing according to climatic and mechanical solicitations EMC testing	EN 50131-3	
		T031 CEB/ BEC (§7.11)	
		T033 CEB/ BEC (§7.10)	
Warning devices	Examination of the informations provided by the manufacturer Functional testing Environmental testing according to climatic and mechanical solicitations EMC testing	EN 50131-4	
		T031 CEB/ BEC (§7.12)	
		T033 CEB/ BEC (§7.11)	
Interconnections equipment using radio frequency techniques	Examination of the informations provided by the manufacturer Functional testing	EN 50131-5-3	
		T031 CEB/ BEC (§6.1)	
Power supplies	Examination of the informations provided by the manufacturer Functional testing Environmental testing according to climatic and mechanical solicitations EMC testing	EN 50131-6	
		T031 CEB/ BEC (§7.13)	
		T033 CEB/ BEC (§7.12)	
Supervised Premises Transceiver (SPT)	Examination of the informations provided by the manufacturer Functional testing Environmental testing according to climatic and mechanical solicitations EMC testing	EN 50131-10	
		EN 50136-2	
		T031 CEB/ BEC (§7.14)	
		T033 CEB/ BEC (§7.13)	

PRODUCTS	TYPES OF TESTING	TEST METHODS	SITES OF ACTIVITY
Boxes: - Junction box - Housing	Examination of the informations provided by the manufacturer Functional testing Environmental testing according to climatic and mechanical solicitations EMC testing	T034 CEB/ BEC	