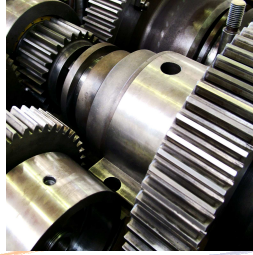


# Certification Body Notified Body Testing Laboratory



## **Eurofins TECH S.r.l.**

is an Italian company leader in many sectors of product safety.

It performs certifications, inspections, audits and tests on many products.

Works in Italy since 1970

From 2008 it is a part of Eurofins Group.

## **Eurofins TECH S.r.l. is:**

*Notified Body n. 0477*

*accredited by the National Accreditation Body, ACCREDIA, as:*

*Certification body n. 119B – UNI EN 45011*

*Inspection body type "A" n. 30E - UNI CEI EN ISO/IEC 17020*

*Test laboratory n. 0085 - UNI CEI EN ISO/IEC 17025*

*Calibration center Accredia LAT n. 062 - UNI CEI EN ISO/IEC 17025*

*International Accreditation:*

*Test Laboratory CBTL (photovoltaic module)*

*SOLAR KEYMARK laboratory (solar collector)*

*ExCB - Certification Body (ATmospheres EXplosives)*

*ExTL - Testing Laboratory (ATmospheres EXplosives)*

*Testing Laboratory recognized by ACAE according to the LOVAG scheme*

# Marking C E



## **Machinery Directive (MD)- 2006/42/EC Directive**

The new 2006/42/EC directive, replaced the 89/392/EEC, 91/368/EEC, 93/44/EEC, 93/68/EEC and 98/37/EC directives, applies to machinery and to safety components from 2009-12-30



## **Lifts Directive (LD)- 95/16/EC Directive**

The 95/16/EC directive applies to lifts and to lift safety components. The Directive establishes that the Subject Responsible of the CE marking is the installer.

This directive has been modified by the 2006/42/EC from 30-12-2009



## **Pressure Equipment Directive (PED) - 97/23/EC Directive**

The 97/23/EC Directive applies to the equipment and to the assemblies whose minimum allowable pressure (PS) is at least 0,5 bar. The procedures of the evaluation of the conformity are defined depending on the fluid type (gas/liquid), on its dangerousness and on the product pressure x volume or pressure x diameter



## **ATmospheres EXplosives Directive (ATEX) - 94/9/EC Directive**

The 94/9/EC Directive applies to equipment and protective systems intended for use in potentially explosive atmospheres, safety devices, controlling devices and regulating devices, and vehicles intended for use in potentially explosive atmospheres.



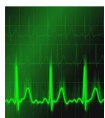
## **Personal Protection Equipment (PPE) - 89/686/EEC Directive**

The 89/686/EEC Directive, modified by the 93/68/EEC, 93/95/EEC and 96/58/EC directives, applies to personal protection equipment designed to be worn or held by an individual for protection against one or more health and safety hazard, headphones, ear insert, aqualungs, anti-fall device, etc.



## **Acoustic emission of machineries working outdoors (NED Noise Equipment Directive) - 2000/14/EC Directive**

The 2000/14/EC Directive applies to 57 types of machineries and equipment for which has to be declared the level of guaranteed sound level. Are included for example: cranes, electric generating sets, earth moving machinery, saws, motor-driven compressors, concrete breakers, grass trimmer, pneumatic tools.



## **Medical Devices Directive (MDD) - 93/42/EEC Directive**

The 93/42/EEC Directive and upgrade (98/79/EC, 2000/70/EC, 2001/104/EC, Regulation 1882/2003 and 2007/47/EC), applies to medical devices and to their accessories. For medical device it is considered each product intended to be used on people for diagnosis, prevention, therapy of a disease, whose main target is not achieved through pharmacological ways.

New



## **Construction Products - Regulation (EU) No 305/2011**

Construction Products Regulation (the CPR) is to ensure reliable information on construction products in relation to their performances. This is achieved by providing a "common technical language", offering uniform assessment methods of the performance of construction products.



## **Low Voltage Directive (LVD) – electrical security 2006/95/EC Directive**

The 2006/95/EC directive replaces the 73/23/EEC Directive and it applies to electrical materials intended to be used at a nominal voltage between 50 and 1.000 Volt in alternate voltage and between 75 and 1.500 Volt in continuous voltage.



## **ElectroMagnetic Compatibility directive (EMC) - 2004/108/EC Directive**

The 2004/108/EC directive has replaced the 89/336/EEC directive, modified and integrated by directives 92/31/EEC, 93/68/EEC e 93/97/EEC.

The directive applies to devices that can create electromagnetic disturbances or can be interested by electromagnetic disturbances.



## **Radio and Telecommunications Terminal Equipment directive (R&TTE) 99/5/EC Directive**

The 99/5/EC Directive applies to radio equipments and to telecommunications terminal equipments and specifies the dispositions for their placing on the market, their free movement and their setting up.

# International Accreditation



## **ExCB - Certification Body and ExTL - Testing Laboratory for ATmospheres EXplosives**

The IECEx Conformity Assessment System provides assurance that products listed on the IECEx Certificate are conform to safety compliance in hazardous areas.



## **CB Test Laboratory for IEC 61215 and IEC 61730**

The testing laboratory, recognized all over the world, provides IEC test report on photovoltaic modules according to the standards IEC 61215, IEC 61646 and IEC 61730.



## **Testing Laboratory for EN 12975 and EN12976**

The testing laboratory, recognized on the Solar Keymark-Scheme, provides test report on solar thermal products demonstrating, to end-users, that a product is conforms to the relevant European standards and fulfils the additional requirements.



## **Testing Laboratory recognized by ACAE according to the LOVAG scheme**

The testing laboratory, is able to test electric and electronic equipment according to the electric safety and EMC requirements.

## Quality Certification



## **ISO 13485 Medical Devices- Quality Management Systems**

The standard specifies requirements for a quality management system where an organization needs to demonstrate its ability to provide medical devices and related services that consistently meet customer requirements and regulatory requirements applicable to medical devices and related services.

## Audit



### **DESIGN VALIDATION check**

EUROFINS TECH S.r.l, is accredited by ACCREDIA as inspection body of type "A" with the number 30E. Take in their action in checking for the design projects related civil works, building on technological systems and urbanization in accordance with the provisions of national standard and Italian law Legislative Decree n. 163/2006 and subsequent amendments.



### **Energy Efficiency: Machines and Equipment**

Energy consumption has an important role in business costs and impacts on the environment. We determine the loss of pneumatic systems, we perform analysis of power quality and monitor energy consumption and perform thermographic analysis on electrical panels.



### **Energy saving - Energy certification of buildings / Checking the requirements of thermal and hydrothermal building components**

The Italian Law DLGS 192/05, as amended in implementation of the European Directive 2002/91/EC has imposed a series of requirements for the containment of energy consumption of buildings. We can prepare the certification practices and energy to do the evaluation of the thermal transmittance of windows and opaque components for the construction industry.



### **Retail, Importation and GDO**

The service aimed at the retail market as well as importers and distributors of products is aimed at the verification of the safety requirements of products to the EU directives and national regulations. Our services include: TECHNICAL ASSISTANCE REGULATIONS, TESTING, TESTING OF PRE-SHIPMENT, AUDITING at suppliers, PERFORMANCE TESTS-BENCHMARKING.



### **Product conformity – expertise and evaluations**

The service for the manufacturer and the user is aimed at the verification of safety requirements for specific products. The service includes: technical assistance legislation, assessment of technical documentation, testing and evaluations of specific new and used products.

# Testing Laboratory

## Measures and Testing

### Laboratory: Rivalta Scrivia

#### **Electric Safety**

- Electrical continuity-Insulation resistance, dielectric strength-Residual voltage, Leakage current, wire test and various tests Main Standards: EN 60204 – EN 60335 - EN 60439 EN 60950 - EN 61010 – EN 60529.
- Determination of the degree of protection IP.

#### **Electromagnetic Compatibility**

- Emissions: conducted and radiated;
- Immunity: conducted and radiated;
- Harmonics, flicker, fast transients
- Pulse, electrostatic discharge;
- Dips, interruptions and voltage variations.
- Main standards: IEC 55014 - IEC EN 55011  
IEC EN 55022 CEI EN 55024 - IEC EN 61000 serie.

#### **Automotive**

- Electric and electronic equipment installed on board of motor vehicle – automotive. (Directive 2004/104/EC)

### Laboratory: Torino

#### **ATEX**

**Equipment and protective systems ended for use in potentially explosive atmospheres. Main standard:**

- General test EN 60079-0 - EN 13463-1
- Flameproof enclosure “d” EN 60079-1 - EN 13463-3
- Increased safety “e” EN 60079-7
- Intrinsic safety “i” EN 60079-11
- Encapsulation “m” EN 60079-18
- Pressurized apparatus “p” EN 60079-2
- Explosion venting devices (vent)  
EN 14491 - EN 14994 - EN 14797
- Electrical apparatus for use in the presence of combustible dust EN 60079-31
- Electrostatic hand-held spraying equipment  
EN 50050
- Flame arresters EN ISO 16852

#### **Construction Products**

- Road traffic noise reducing devices (noise barrier) EN 14388
- Windows and external pedestrian doorsets EN 14351-1
- Curtain walling EN 13830
- Industrial, commercial and garage doors and gates  
EN 13241-1
- Lever handles and knobs EN 1906
- External blinds and shutters EN 1932

#### **Products**

- Kitchen furniture
- Portable ladders
- Hydraulic steering system

#### **Personal Protective Equipment**

- Equipment for hearing protection;
- Equipment for head protection (helmets, ...);
- Respiratory protective equipment;
- Protection against falls from a height;
- Anchor devices (EN 795);

#### **Products for the Renewable energy industry**

- Photovoltaic Modules  
EN 61646 – EN 61215 – EN 61730;
- Thermal Solar Systems and Components  
EN 12795 – EN 12796;
- Inverters, Protection Device  
CEI 0-16; CEI 0-21- CEI EN 62109

#### **Medical Devices**

**Main test according to EN 60601-1 /-2:**

- Accessibility test;
- Energy Characterization;
- Applied voltage;
- Leakage current;
- Contact current;
- Patient auxiliary currents;
- Continuity of the protective circuit;
- Resistance to humidity (climatic chamber);

#### **Acoustic Measurement and Test**

- Sound insulation test in site or in laboratory  
UNI EN ISO 140 (series)- UNI EN ISO 717 (series)
- Sound insulation in building and building elements  
UNI EN ISO 140 (series)- UNI EN ISO 717 (series)
- Measurement of sound absorption  
UNI EN ISO 354
- Sound pressure level  
UNI EN ISO 11200 (series)
- Sound power level and sound intensity  
UNI ISO EN 3740 (series)- UNI EN ISO 9614 (series)
- Sound pressure level of automotive equipment  
Manufacturer specification.
- Test method for determining the acoustic performance  
Intrinsic characteristics. In situ values of sound reflection  
and airborne sound insulation – Adrienne Method-  
UNI CEN/TS 1793-5:2006

#### **Vibrations Measurement and Test**

- Human exposure hand-transmitted vibration ISO 2631-1
- Human exposure to whole body vibration ISO 5349-1
- Hand- Held portable power tools – Measurement of vibrations at the handle UNI EN ISO 8662 (series)
- Measurement and evaluation of the effects of vibrations on buildings UNI 9916 - UNI 9614.

#### **Mechanical and physics measurement and test**

Measurement and test according to standard and customer specification:

- Resistance to static loads (road barriers, post sign, ...)
- Resistance to dynamic loads (windows, etc.)
- Industrial, commercial and garage doors and gates  
EN 13241-1
- Resistance to repeated cycles (kitchen cabinets, lever handles, ...);
- Salt spray test;
- Thermal stress: test in climatic room hot and cold (solar panels ...)
- UV exposition (steering devices, ...)
- Air permeability and watertightness (windows, doors, curtain walling, ...)
- Impact resistance
- Dust Explosion Test: Hartmann Tube Apparatus.
- No destructive test: acoustics emission, visual inspection, thickness, etc.

### **Eurofins TECH S.r.l.**

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