

**LABORATORY  
TESTING**

**ON-SITE TESTING**

**CERTIFICATION  
OF PERSONS**

**SERVICES for  
WINDOW and DOOR**

Founded in 1959, Istituto Giordano is now a technical organisation at the forefront of product testing and certification, a benchmark for the Italian and International market. Our wealth of technical and design skills, gained in more than 60 years of doing business, enables us to construct many of the testing machines that we make available to the laboratories so that the customer is always offered the solution best suited to his needs.

**15** MULTIDISCIPLINARY LABORATORIES

**150** EMPLOYEES

**200** AUDITORS

**42,500 m<sup>2</sup>** OF RESEARCH AND TEST LABORATORY PREMISES

**380,000** CERTIFICATES ISSUED

**6** LOCATIONS IN ITALY

**1** REPRESENTATIVE OFFICE IN CHINA

*“Our values have always been based on independence and impartiality, upskilling and continuous technological improvement”*

# OUR RECOGNITION IS YOUR FUTURE

Istituto Giordano has established itself as one of the leading bodies and laboratories in the windows and doors sector.

From certification and accredited qualification to recognition and authorisation, in order to make the most of products and professional skills

Certification **Body and Notified Laboratory** pursuant to Regulation (EU) No. 305/2011 (CPR) able to issue certification for CE marking.

Certification of the **consistency of performance of external pedestrian doors** installed on escape routes in accordance with EN 14351-1.

ACCREDIA accredited to demonstrate the technical competence of our laboratories in accordance with standard UNI CEI EN ISO/IEC 17025 and implement a quality management system conforming to UNI EN ISO 9001.

Laboratory tests and certificates are **recognised and accepted at National, European and International level** by virtue of EA (European co-operation for Accreditation) and ILAC (International Laboratory Accreditation Cooperation) recognition.

Certification of the **competence of persons** in accordance with ISO/IEC 17024.

Recognised for **burglar resistance testing** by German certification body, ECB.

Recognised as an **accredited laboratory for window, door, and curtain wall** testing by the American certification bodies:

Keystone, WDMA (The Window & Door Manufacturers Association) and NAMI (National Accreditation & Management Institute).

View the complete  
Recognition,  
Authorisation, and  
Accreditation list





# LABORATORY TESTING

Our laboratories can perform tests and calculations of various types, ranging from standard tests to complex multidisciplinary requirements, ensuring that when placed on the market, products will meet consumer expectations and comply with contractual and safety requirements

## » WINDOWS AND DOORS

- Mechanical strength and durability cycle testing
- Burglar resistance
- Thermal transmittance
- Sound insulation
- Fire resistance testing of door and shutter assemblies
- Environmental testing (air, water, and wind) in accordance with the main International, European, and American Standards

## » INDUSTRIAL DOORS AND GATES

- Safety of manually-operated or motorised doors and gates
- Resistance to wind load
- Cyclic durability
- Anti-fall devices (for vertically moving doors)
- Thermal transmittance
- Fire resistance testing of doors and shutters in accordance with standard UNI EN 1634-1 pursuant to Ministerial Decree dated 21/06/2004 (Ministry of the Interior Authorisation dated 08/02/2008, code RN01FR02A1)

## » RAILINGS AND PARAPETS

- Impact resistance
- Thrust tests

## » CURTAIN WALLING

- Environmental testing (air, water, and wind) in accordance with the main International, European and American Standards
- Thermal transmittance performance assessment
- Sound insulation assessment
- Impact resistance

## » GLAZING

- Fragmentation of toughened glass
- Mechanical strength of toughened glass
- Impact strength of toughened and laminated glass
- Impact and resistance to axe attack of attack-proof and anti-vandal security glazing
- Determination of the luminous and solar characteristics
- Thermal comfort (G<sub>tot</sub>)
- Thermal transmittance of insulating glass units using the calculation method based on emissivity and Argon gas concentration measurements
- Dew point measurement
- Haze measurement
- Sound insulation assessment

## » SHUTTERS

- Resistance to wind load
- Solar reflectance index (SRI) on flat roofs
- Thermal comfort (G<sub>tot</sub>)
- Additional thermal resistance of shutters



## » ROLLER SHUTTER BOXES AND BUILT-ON ROLLER SHUTTERS

- Shutter box thermal transmittance
- Linear thermal transmittance of side and undersill panels
- Sound insulation assessment
- Air permeability assessment

## » BUILDING HARDWARE

- Mechanical strength
- Security and safety
- Durability/Reliability (opening and closing cycles)

## » SECURITY GRILLES

- Burglar resistance





## ON-SITE TESTING

We also offer on-site testing, enabling us to issue certification for your products when they have already been installed or laid, thus obtaining the same quality as laboratory tests

- Thermal irregularities relating to window and door installation using thermal imaging
- Watertightness of windows, doors, and curtain walling
- Impact resistance
- Sound insulation

## OUR SPECIAL TESTS

Every day, our engineers design new equipment so that you can qualify your products' efficiency and safety through special tests complying with National and International regulations.

Two highly innovative examples are a standout feature of the Italian scene.



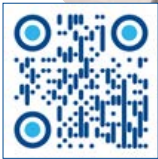
### WIND GENERATOR

#### Curtain walling water and wind resistance

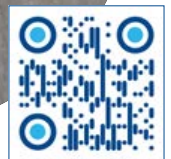
Using a wind generator constructed with blades of length 2 m operating at 800 rpm we can produce effects very similar to those of a tropical storm, thus enabling us to assess the water resistance of skyscraper curtain walling during strong gusts.

The only one of its kind in Italy and Europe, it is built in accordance with American standard AAMA 501-1 and the British CWCT.

It has also obtained ACCREDIA accreditation to ISO/IEC 17025.



Watch the water penetration test



Watch the resistance test

### GLASS IN BUILDING

#### Hurricane resistance testing of laminated glass

We offer a complete and visually striking test in accordance with standard ISO 16932 to determine the resistance to impact caused by windborne debris during a destructive windstorm and at the same time the resistance to cycles of strong positive and negative pressure caused by gusts of wind.



## CE MARKING OF CONSTRUCTION PRODUCTS

Istituto Giordano is a Certification Organization and Notified Laboratory under Regulation (EU) 305/2011 (CPR) for over a hundred products. Among its services, it also certifies the constancy of performance of external pedestrian doors installed on escape routes, in compliance with EN 14351-1



## CERTIFICATION OF PERSONS

The certification scheme offers the chance to establish yourself and demonstrate the competence gained with experience, enabling you to exhibit a professional qualification meeting increasingly exacting market requirements. Furthermore, obtaining certification entitles you to be registered in the ACCREDIA database of certified professionals (UNI 11673)

### UNI 11673-2 QUALIFICATION FOR WINDOW AND DOOR FITTERS

We issue ACCREDIA-accredited qualifications in accordance with standard UNI 11673-2 and the requirements of ISO/IEC 17024. The licence specifies a window and door fitter's knowledge, competence, and skills, ensuring that requested product energy performance will be achieved from construction to installation.

There are several professional levels for a window and door fitter

- Junior window and door fitter
- Senior window and door fitter
- Foreman window and door fitter



### WELDING COORDINATOR ISO 14731

The welding coordinator within a company holds the role and function of organizing the manufacturing process. This position of responsibility must be designated by the company and validated by the Certification Body, which conducts the technical verification. The ISO 14731 and ISO 3834 standards outline the tasks, responsibilities, and training required for the welding coordinator.



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