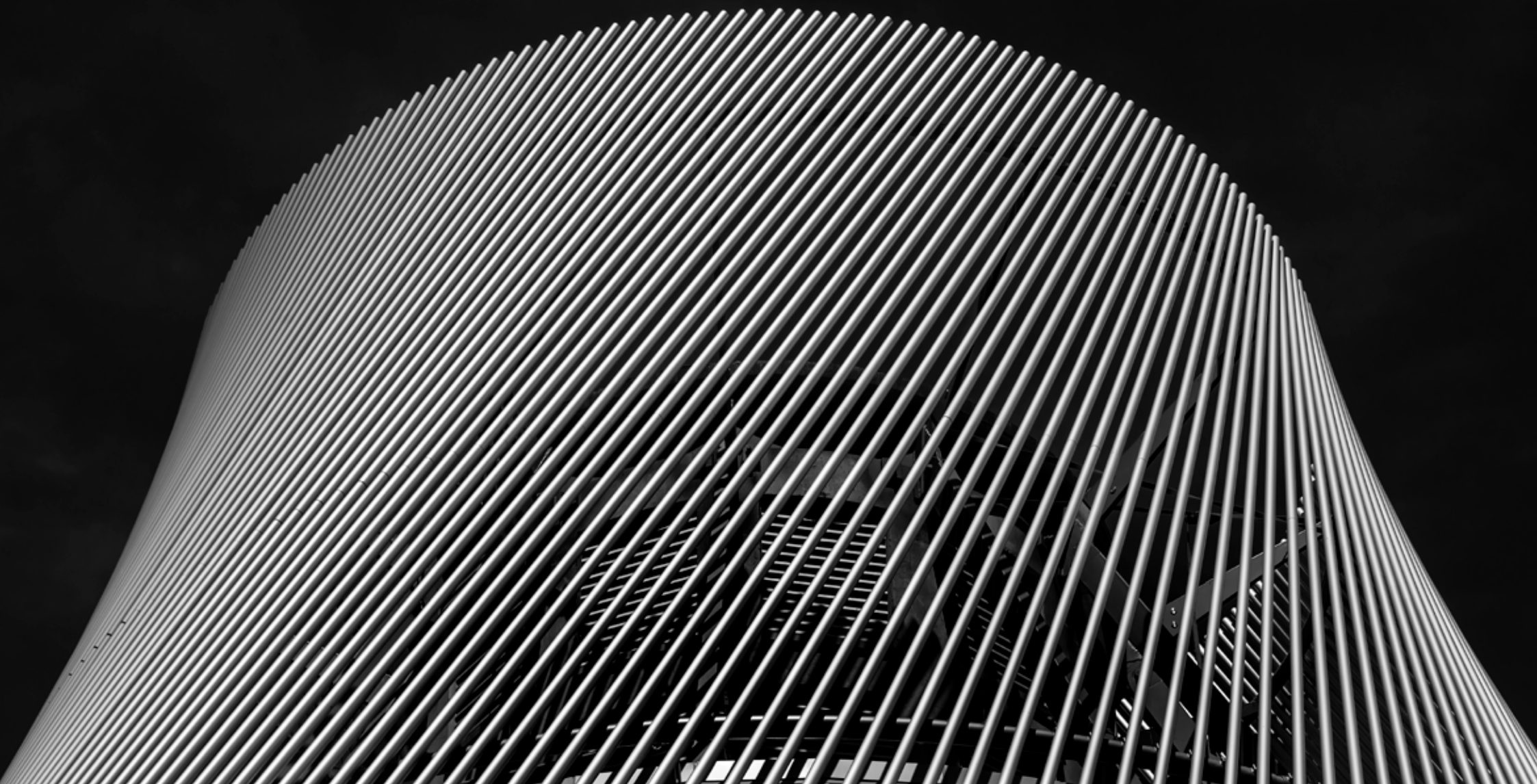




Façade Testing Institute

www.fti-europe.com



WELCOME TO FTI



FTI Façade Testing Institute is an independent test laboratory which provides third-party testing and controlling services for curtain wall, window, door products and various other construction materials for the building sector. We perform a wide range of tests on site or in our advanced laboratory, located in Istanbul /Turkey. We trust and offer our knowledge and experience in engineering, material selections, product control and field assembly for professional inspections.

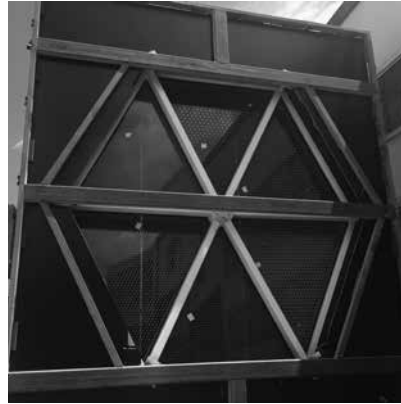
FTI is an accredited laboratory by **TÜRKAK (Turkish Accreditation Agency)** according to **TS EN ISO/IEC 17025 with AB-0531-T** accreditation number. FTI is also **a notified body by European Union, with NB-2547 number, as a Notified Body.**

The scope of the EU / Construction Products Regulation requires the CE marking process to be completed before the product is placed on the market in the European Union countries. **We perform the necessary tests and analyzes for curtain wall, door and window products for CE Marking process with the authority of Notified Body.**

FTI is also a member of the **CWCT (Centre for Window and Cladding Technology)**. We provide alternative test solutions to our customers following and applying the technical notes and test methods published by the CWCT. We pay great importance to the quality of our services as well as a practically oriented preparation of results. We constantly keep up to date with the newest technologies and scientific approaches to guarantee our customers a great service.







FAÇADE TESTING

We perform tests on façade systems with our expert team according to the related standards which are valid in the international areas.

Multiple number of facade systems can be tested at the same time by using different test units in our advanced facility. For weathertightness performance tests, we can accommodate to samples with maximum dimensions of 7 meters in width and 12 meters in height.

We can evaluate the performance of the façade systems in accordance with European (TS EN 12153, TS EN 12155, TS EN 12179, TS EN 13050), American (ASTM E283, ASTM E330, ASTM E331, AAMA 501.1) and various other standards.

CURTAIN WALL TESTING

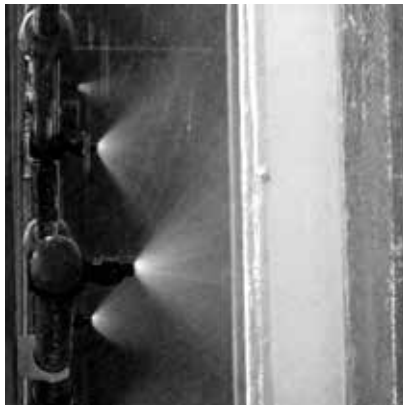
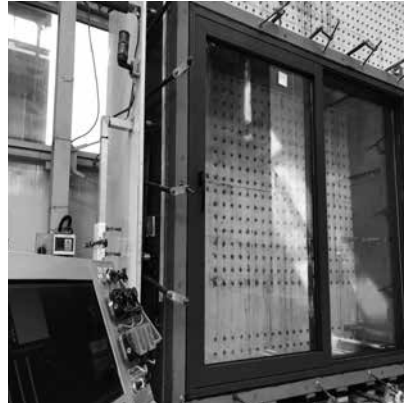
SKYLIGHT TESTING

WINDOW WALL TESTING

DOUBLE FAÇADE TESTING

The tests for CE Marking process of the façade systems can be carried out according to TS EN 13830 standard in our laboratory. We can assure that all test data's and published reports are valid throughout the world in accordance with our accreditation and the other responsibilities.





WINDOWS & DOORS

Tests to determine various performances of door and window products are carried out in our laboratory. We evaluate the weathertightness, acoustic, impact and mechanical performances of the door or window systems within our test scope.

We can test window and door products with maximum sizes of 4 meters in width and 4 meters in height. We can evaluate different types of products in the testing processes with the adaptation of our units in our laboratory.

SINGLE AND DOUBLE LEAF DOORS

SLIDING DOORS

FOLDING DOORS

TILT & TURN WINDOWS

GUILLOTINE WINDOWS

Weathertightness tests can be performed according to TS EN 1026, TS EN 1027, TS EN 12211 and we apply the necessary tests on door and window products for CE Marking according to TS EN 14351-1 standard.

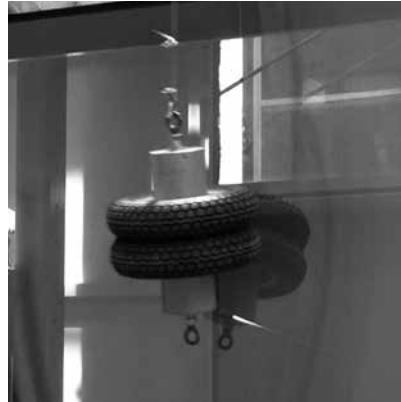




SPECIAL TESTS

The variation of regions, products and projects provide diversity in the tests which are applied. Many special tests are performed using FTI Engineering to respond to these variations.

Following tests can be carried out in addition to weather tightness tests which consist of air permeability, water tightness and resistance to wind load.



SEISMIC TESTING

ACOUSTIC TESTING

THERMAL TESTS

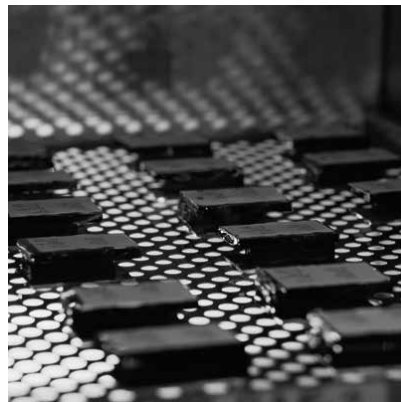
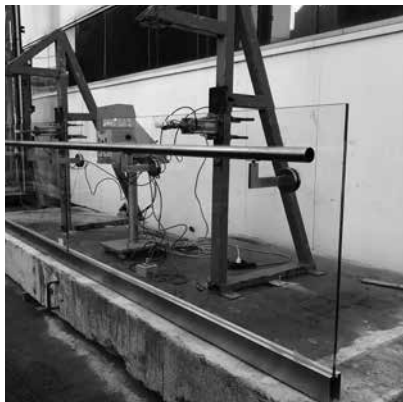
IMPACT TESTING

BALUSTRADE TESTING

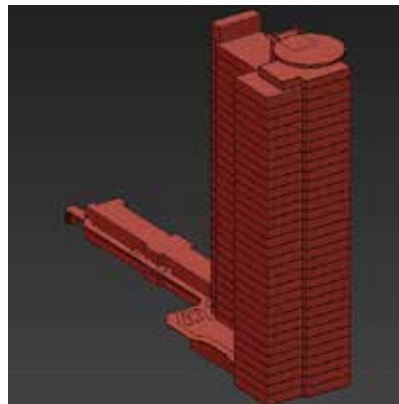
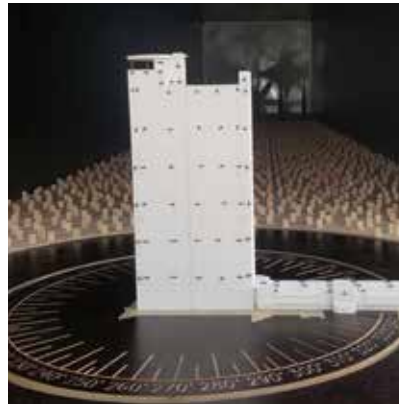
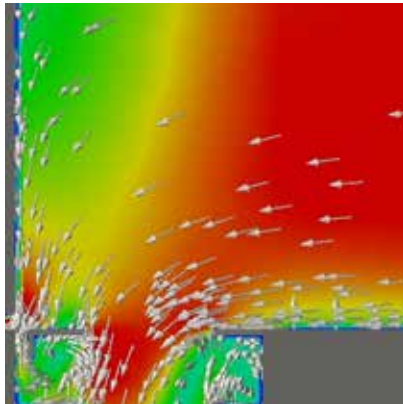
BURGLAR RESISTANCE TESTS

MECHANICAL & CHEMICAL STRENGTH TESTING

We examine and evaluate different standards, in addition to performing the tests on the basis of American and European standards.







WIND TUNNEL

Wind tunnel experiments are useful when solving different problems in the field of building aerodynamics, as some cannot be assessed with simple approaches and numerical models.

We perform wind tunnel testing on scaled building models in partnership with Wacker Engineering, which has 25 years of experience in the sector.

Two testing companies combining their experiences as **FTI-Wacker Engineering**. The consultants work out physically well-founded solutions which are based on literature investigations, analytical approaches, calculations, numerical flow, temperature simulations, experimental investigations and wind tunnel experiments.

WIND LOADS ON BUILDING AND COMPONENTS

WIND-INDUCED VIBRATIONS OF STRUCTURES

MAN-INDUCED VIBRATIONS OF STRUCTURES

SNOW LOADS ON ROOFS OF BUILDING

PEDESTRIAN COMFORT IN THE NEIGHBOURHOOD OF BUILDING

With an experience more than 25 years of FTI- Wacker Engineering consultants offer a large variety of high-quality services in building aerodynamics and indoor airflow.





ON-SITE TESTING

FTI provides on-site tests to check the performance of the products which have been installed or are being installed in the field. We have the ability to perform on-site tests using portable equipment at any construction site/ location.

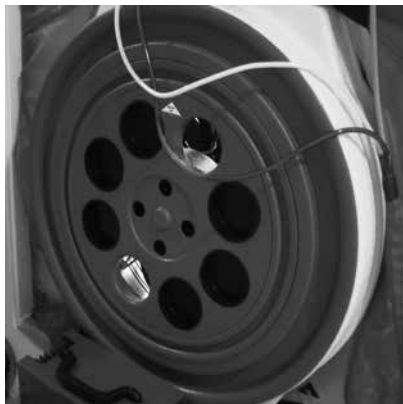
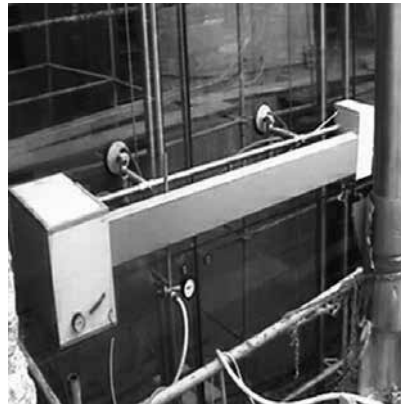
AIR LEAKAGE

WATER TIGHTNESS

ACOUSTIC

We perform air permeability test with static pressure to determine the air leakage value of the system according to ASTM E 783 and TS EN ISO 9972. We can undertake AAMA 501.2 hose testing and TS EN 13051 spray bar testing for water tightness test on site. In addition, water tightness test under static pressure can be performed according to ASTM E 1105 standard.

We evaluate the TS EN ISO 16283-1 acoustic testing on-site and acoustic visualization can be carried out to determine the weaknesses of the system using an acoustic camera.



FTI Faade Testing Institute

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