Promat

YOUR PARTNER FOR FIRE, ACOUSTIC, PHYSICAL AND MECHANICAL LABORATORY TESTS

A worldwide presence, a passion for excellence,
testing against national and international standards

Promat - part of the Etex Group

Innovating for our customers' success

etex inspiring ways of living

Promat

HELPING OUR CUSTOMERS INNOVATE THROUGH OUR ETEX FACILIITIES

Etex Innovation & Technology Center

Etex Innovation & Technology Center (ITC) organization is leading the Innovation for the Etex group. Its mission is to innovate products, systems, services and technologies in order to complete the solutions offered to our customers and our customers' customers. Etex ITC covers different fields of expertise, allowing us to conduct seismic, mechanical, fire, acoustic, thermal efficiency, and physical property tests.

The ITC operates six testing facilities in Europe and one in Australia.

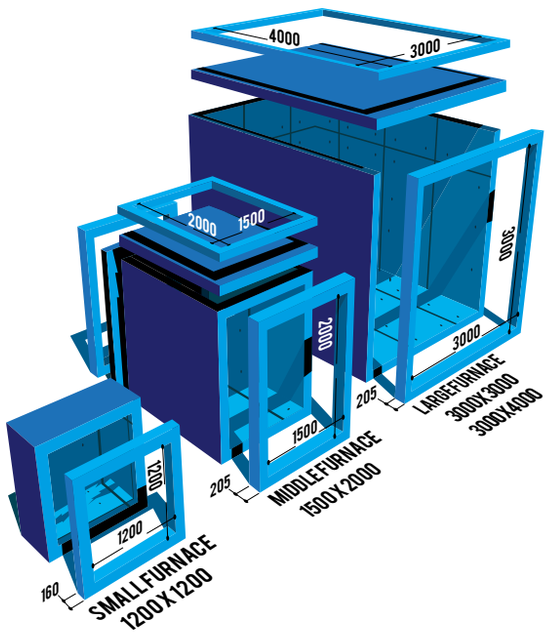
Promat testing capabilities

The testing facitlites of ITC are at Promat's disposal to conduct fire, acoustic, durability and mechanical tests with its customers. In addition to the technical sales representatives and the expertise in Promat's technical department, 140 experts from ITC assist you in the development of your solution, utilising the wide variety of products. Furthermore, we support our customers in preliminary pre-tests within our facilities to maxize the success rate of official tests at accredited institutes and notified bodies such as Efectis, WFRG, MPA and many more.

Fire testing

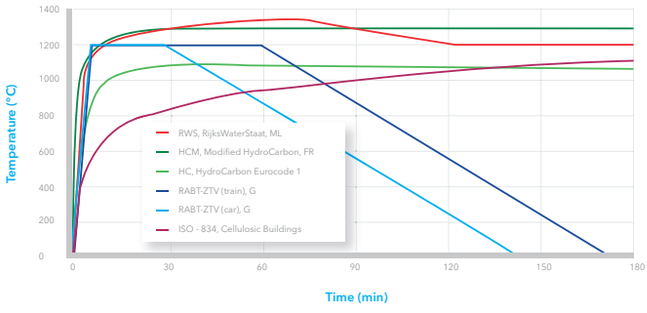
ITC's fire labs conduct more than 300 fire tests every year in its furnaces located at Tisselt, Belgium and Avignon, France. These furnaces come in different sizes and allow our customers to either test certain material properties on a small scale or conduct a full-scale tests of a finished solution:

- **Small furnaces** can test vertical specimens in the dimension of 1200 x 1200mm (WxH)
- **Medium furnaces** can simultaneously test three frames of 1500 x 2000mm (WxH) each
- **Large furnaces** can test walls of 3000 x 3000mm and ceiling solution of 3000 x 4000mm (WxH)



In addition to testing vertical and horizontal separating elements, out facilities also allow you to test specific applications, such as safety and storage cabinets, fire dampers and air ducts.

The fire testing facilities meet the highest requirements and enable us and our customers to test in accordance with the highest precision temperature curves, such as ISO-Curves (EN1363-1), Hydrocarbon-Curves (EN1363-2) and R.W.S fire curve for tunnels, IMO testing for shipbuilding and many more, that are required to meet the different worldwide fire test standards.

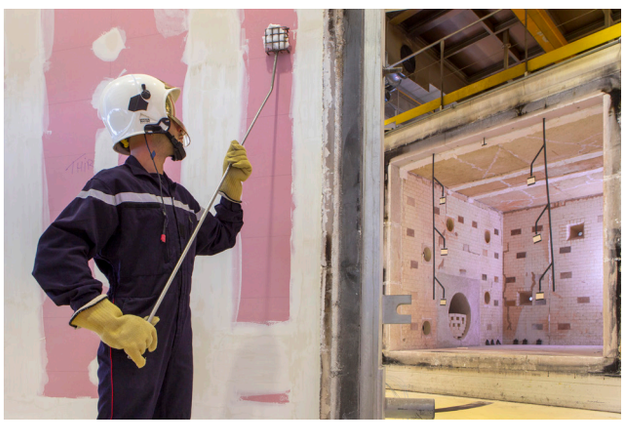


Documented & delivered

Customers conducting a fire test with ITC labs receive:

- a test report including visual perception, temperature graphs of temperatures inside and outside the furnace measured by up to 98 thermo couples and furnace pressure;
- drawings and a cross-section of the construction;
- photos of the construction and the fire test;
- images from the camera in the oven showing the behaviour of the construction during the fire test

We know how important these are to our customer's learning and innovation processes, providing valuable insights into their soution's performance.



Acoustic testing

The ITC has a full scale laboratory to develop innovative solutions for acoustic comfort.

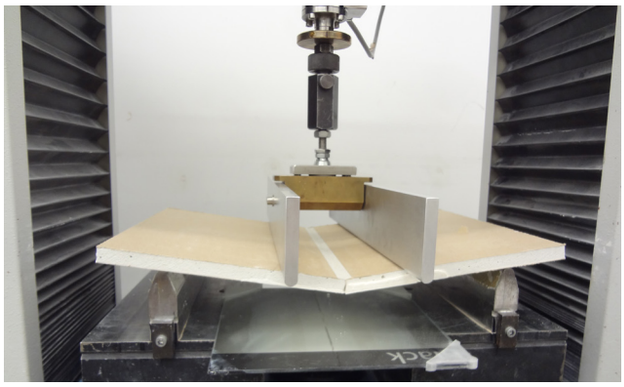
Our lab in Avignon, France is based on the principle of a box within a box to overcome any lateral transmission. Partitions, floors, ceilings or façades are analyzed experimentally regarding three types of performances: airborne sound transmission, impact noise reduction, and acoustic absorption.

Numerical acoustic modelling enables a deeper understanding of a system's acoustic behavior, reduces development time and more quickly identifies innovative systems.

Physical and mechanical testing

To guarantee optimal mechanical performance, the ITC conducts various mechanical and physical tests to check systems in accordance with different national and international standards.

Customers benefit from deeper knowledge about the performance of their product or solution through tests that simulate different real world variables, including: wind pressure, weight of systems, additional load on partitions, impact, crowd pressure, exposure to moisture and climate, seismic vibrations and hygiene.

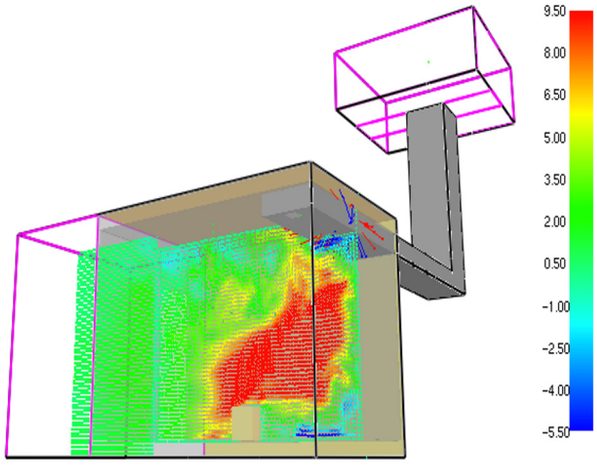


Simulations

The Simulations team at ITC supports the strategic development of systems and applications of our customers with numerical models. With these numerical models we can provide technical support to the customers towards specific development projects.

Our main research areas are:

- Passive Fire Protection
- High Temperature Insulation
- Fire Safety Engineering
- Acoustics



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Terms and conditions

To be eligible for testing at ITC facilities, solutions to be tested must contain Etex products and materials or be of relevant interest for Etex to gain new insights by co-developing with a partner.

Any request for a test will be processed by ITC and the Etex Industry division (Etex Industry). The tests at ITC are not free of free of charge and will be offered in a quotation. Upon quotation acceptance, the test request is placed in the ITC testing schedule.

The installation of the solution in the test facility is typically carried out by the customer. For fire tests, ITC supplies the frame into which the customer's solution will be incorpororated. ITC provides support in unloading with fork lifts and cranes for solutions up to 10 tonnes. Each test is unique and installation is done in consultation and alignment with ITC and Etex industry. If necessary, ITC can conduct the installation of the solution, which can incur additional costs that are to be payed by the customer.

We recommend that installation commences one or two days before test, to allow ITC staff to place thermocouples and setup the test. With the exception of Etex products, all materials and tools are to be provided by the customer.

Get in contact with Promat today to discuss what our testing labs can do for you:

engineering.industry@etexgroup.com