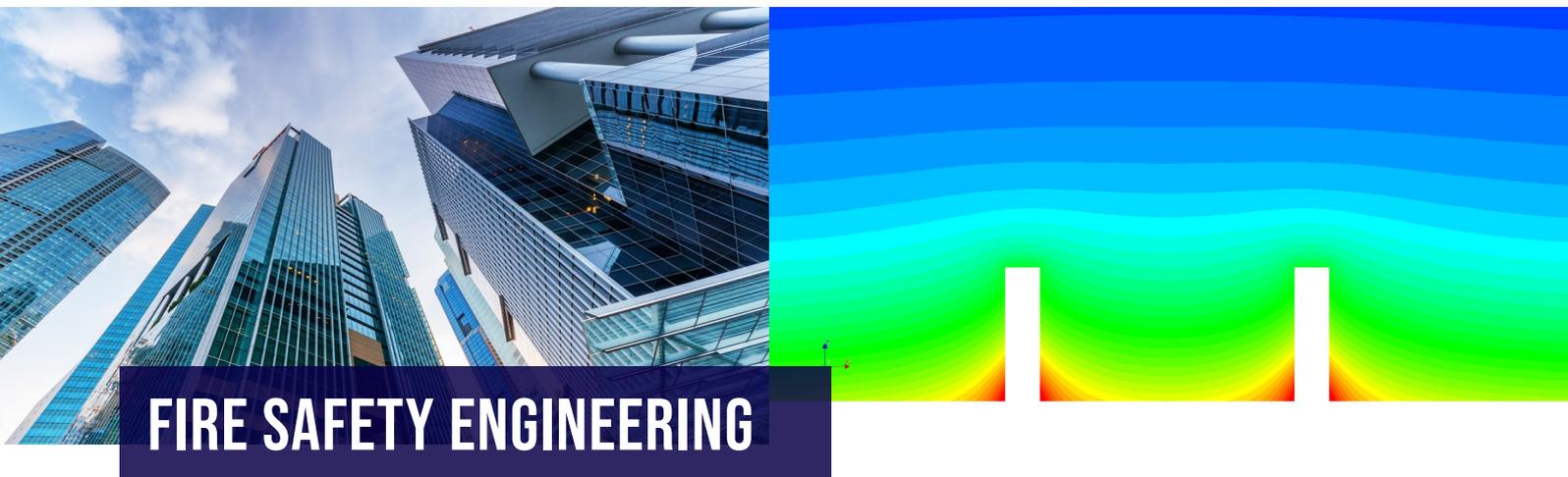




Efectis is an independent third party assessing the fire performance of products, systems, designs and constructions. We can help you worldwide.



## FIRE SAFETY ENGINEERING

### WHO ARE WE

Efectis is the largest European network of fire research institutes. Every day we test products on fire behavior for construction, industry and consumers, in doing this we have gained decades of knowledge and experience. We have broad knowledge of the origin and development of fires and the reaction of materials to fire. We apply this knowledge to answer your questions regarding fire safety. Efectis works for individuals, businesses, industry and government.

### WHY EFFECTIS

The specialists of Efectis work with you to answer your questions, and provide guidance towards a safe and compliant solution within the framework of your project. Insight into all aspects of fire safety is important. We use a combination of risk assessment, scientific data, engineering principles, knowledge of regulations and our institutional knowledge and experience to estimate, assess and/or influence the development of a fire and the performance of products, systems and structures in fire conditions. Efectis also provides training in this field to share knowledge regarding fire safety.

### WHAT CAN WE DO FOR YOU

Efectis assesses fire safety at any desired level, from overall and extensive to specific to only certain aspects or parts of the build environment. Our unique combination of a test laboratory with a knowledge institute reinforces the value of our assessments:

- Integral Quantitative Risk Analyses; a complete assessment of all aspects of fire safety that occur in your project.
- Evaluations of plans and designs according to the applicable laws and regulations.
- Guidance in finding solutions that do not directly meet the fire safety requirements; high-rise buildings, tunnels, large fire compartments, fire protection systems, etc..
- Tailor-made assessments; of parts that (possibly) do not meet the legal performance requirements, often to test equivalent safety according to the Building Decree.
- Inspections on site; to assess an existing construction on the basis of the legal requirements.

[WWW.EFFECTIS.COM](http://WWW.EFFECTIS.COM)

*"Efectis is a global player in fire science and covers all fire safety expertise in testing and modelling, certification, inspection, education and expertise."*

## WHICH METHODS DO WE USE?

Years of expertise combined with a wide range of calculation and test methods form the basis of our approach. We perform the following calculations for you:

- Computational Fluid Dynamics (CFD) calculations, to determine the influence of smoke dispersion and temperature, based on fire scenarios.
- Element Methods, such as DIANA, to determine the temperature course in a structure and assess its consequences.
- Movement and behavioral models, such as Exodus, to calculate and predict human behavior during evacuations.
- Assessing large (> 1000 m<sup>2</sup>) fire compartments.
- ASET and RSET calculations based on structural integrity.
- Fire spread calculations.
- Evacuation calculations.

## WHAT ELSE CAN WE DO?

Efectis shares its knowledge about fire safety and provides education, training and courses. In addition, we conduct research into fire safety issues arising from building practice and social issues.

