



Fire Protection Engineering Solutions

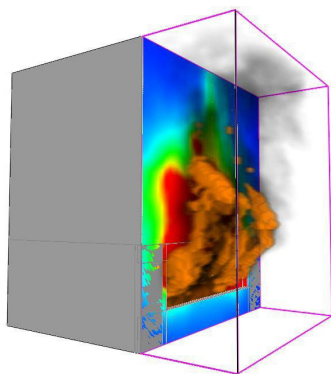
Consultancy and engineering services by Efectis

CONTEXT

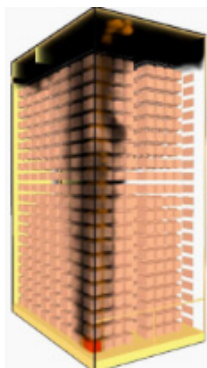
Efectis is a recognized Global Expert in Fire Science. Whether to optimize safety performance, achieve regulatory compliance, lower insurance premiums or reduce building costs; our ability to virtually model and physically test provides an extensive understanding of fire behavior in any complex environments.

WHO IS CONCERNED?

- Architects, Engineering companies, Contractors
- Building owners or operators
- Public authorities and insurance companies



Simulation, fire spread from a window



smoke spread in a building

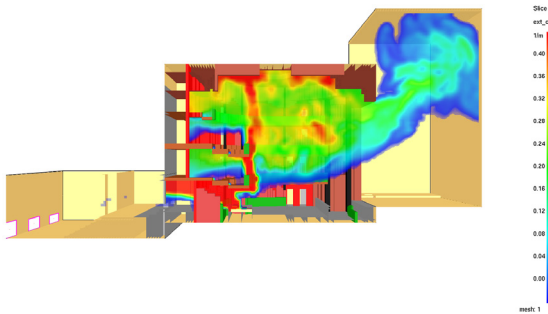


ENGINEERING SERVICES

- Performing fire and explosion hazards analyses
 - Fire and explosion risk assessment and quantification
 - Smoke movement and control analyses
 - Life safety and emergency egress analyses
 - Protection of special hazards/materials and industrial processes
 - Municipality/Fire Department pre-fire tactical planning
- Developing fire/explosion protection and life safety objectives
- Development of fire protection systems design criteria and specifications
 - Evaluation of water supply characteristics
 - Thorough review of applicable codes and design guideline
- Design and engineering analyses of:
 - Fire and explosion suppression systems
 - Evaluation of fire spread potential, including heat transfer analysis
 - Comparison of the fire performance of alternative design options
 - Evaluation of the effectiveness of fire and explosion suppression systems
- Fire detection/alarm/notification systems
- Smoke management systems
 - Analyses of smoke spread within a building or enclosure
 - Evaluation of the performance of smoke containment and/or removal systems and strategies
- Special hazards protection
- Personnel egress and life safety systems
- Evaluating structural fire resistance
 - Assessments of fire effects on structural components
 - Comparative analyses for product/material selection
- Independent (3rd party) design review and evaluation

CONSULTANCY SERVICES

- Code consulting
 - Code compliance reviews (incl. The Joint Commission (TJC) Statements of Conditions for Healthcare organizations)
 - Code conflict resolution (negotiation)
 - Evaluation of codes, standards, and design guidelines
 - Codes/Standards development support
 - Fire and life safety master planning and program development
 - Life safety and egress evaluations
 - Code equivalency analysis and documentation
 - Evaluating fire department access
- Construction management and systems commissioning support
- On-site inspection and evaluation
- Developing, establishing, and documenting fire protection programs for public, business and industrial occupancies



smoke extraction simulation in a cinema

WHY WORKING WITH EFECTIS?

We provide all the necessary services and support to our customers while also providing the highest level of assurance. Working with Efectis also means taking advantage of:

- Comprehensive product and testing knowledge with over 60 years of experience
- More than 10 years of experience as notified body for construction products certification
- A well established brand name and services portfolio
- An excellent customer track record in many countries
- Complete range of fire and non-fire testing capacities
- Dedicated highly qualified and multilingual project managers



ACCREDITATION

Consultancy and engineering services are realized under ISO 9001 certification.

Member of ISO and CEN standardization groups, ASTM E05 and NFPA 502 Committees.



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Efectis is a fire science company and covers all fire safety expertise in testing, modeling, certification and inspection around the world.

To always offer safer life environments, the Efectis teams expand their skills to other safety domains such as structures integrity, pathologies assessments of materials, components and systems, life prediction and durability for new and ancient buildings, monuments and infrastructures.

Efectis Group. Safety issues. Solved.