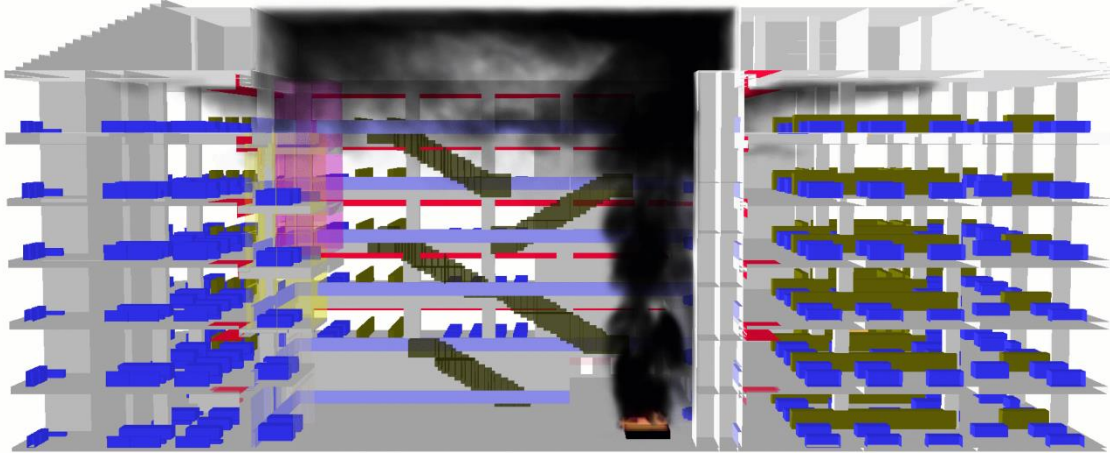


VENTILATION – SMOKE MANAGEMENT

Liveability with effective management of circulating air.
Security and efficiency

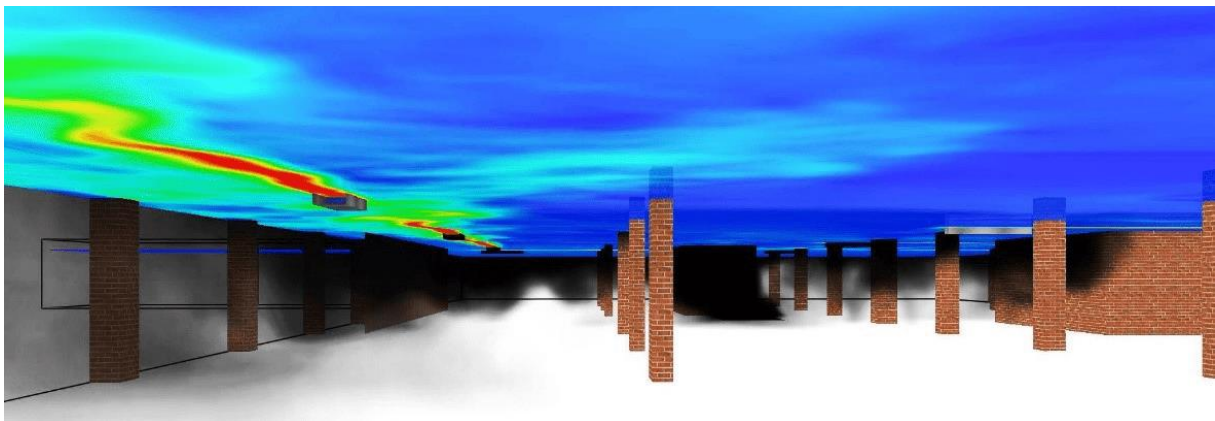
Documents prepared for the past hundred years and described as standards, regulations or instructions have matured as a result of many different simplified experimental studies. Today, the development of standards continues according to each new type of structure or type of material used. It takes a lot of time to apply the test cost of each new experiment to the whole structure. As Alkazar, we ensure that this situation is realized digitally with an engineering approach.



TEXTILE WAREHOUSE FIRE CONDITION - SMOKE MOVEMENT AND VENTILATION IN ATRIUM

What can we do for you?

We make fire modeling by deciding with you in regions that are considered critical during the design phase or building construction process. We calculate the heat load that will arise using the combustion curves obtained from the literature on the material to be burned. Thus, we analyze the volume and areas where smoke will accumulate in the event of a fire in the area, the performance of the ventilation to be used and how people evacuate the place in this emergency, and embody the entire work with videos and pictures.



DETERMINATION OF AIR VELOCITY, TEMPERATURE AND VISIBILITY IN FIRE SPACE

TO BE YOUR MOST VALUABLE PARTNER...

ALKAZAR,

COST REDCUCTION

We deliver you to qualified designs faster and at lower cost.

We save money by using smaller fans in carefully selected locations.

We provide independent advice to consider all options.

INCREASE SCENARIOS

We find pragmatic solutions to ventilation challenges.

We ensure the implementation of life safety systems and control of pollutant control for smoke management.

We test high precision equipment quickly for the best performance.

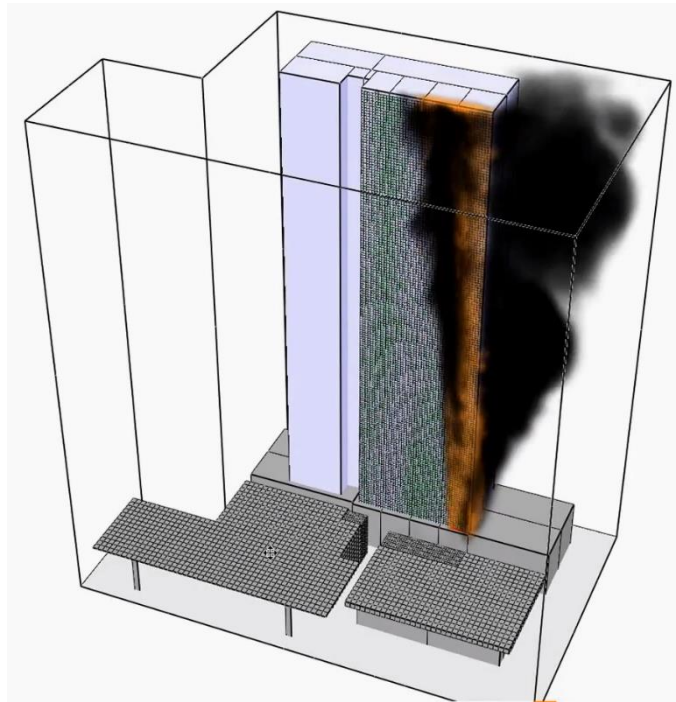
VISUAL OUTPUTS

We optimize exhaust air requirement by implementing life safety systems that meet your local law requirements.

We produce special visuals according to your request.

We provide the results of these very complex analyzes, such as fire, to meet the safety and health requirements, and present them in images in a format that everyone can understand.

- ✓ Make sure that innovative design options will work.
- ✓ Examine effective natural ventilation configurations comparatively.
- ✓ Reduce the cooling load by providing ventilation air more efficiently.
- ✓ Access to work with better pollutant and smoke control systems



How we work

Our team can simulate and present its performance with visuals while you are designing a single office, a very narrow clean room or the ventilation system of a design as big as an airport. In the early stages of the project, we can offer quick suggestions based on past experiences and screening calculations. As the project progresses, our analysis can become more complex and offer deeper evaluation levels. At this stage, we can use computational fluid dynamics (CFD) or wind tunnel studies, or both if necessary. Our recommendations are based on a utilitarian approach where we simplify cost, energy and complexity. We are free to offer innovative approaches with idealized alternatives in our options.