



SIEMENS

Building Technologies



The safe, sure way
to more innovative solutions.
Fire safety systems
from Siemens.

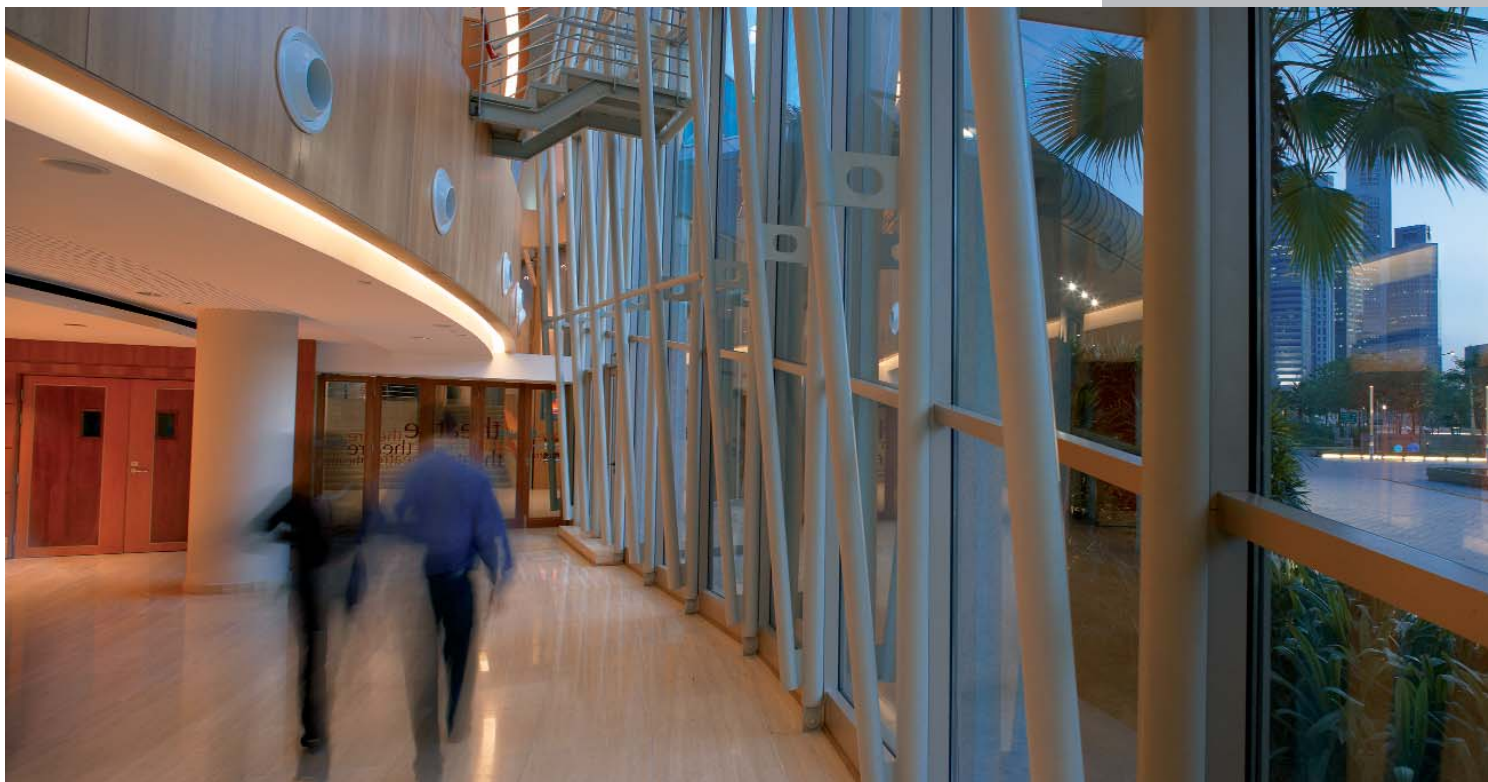
From art galleries to manufacturing facilities:
our approach is setting the world on fire.

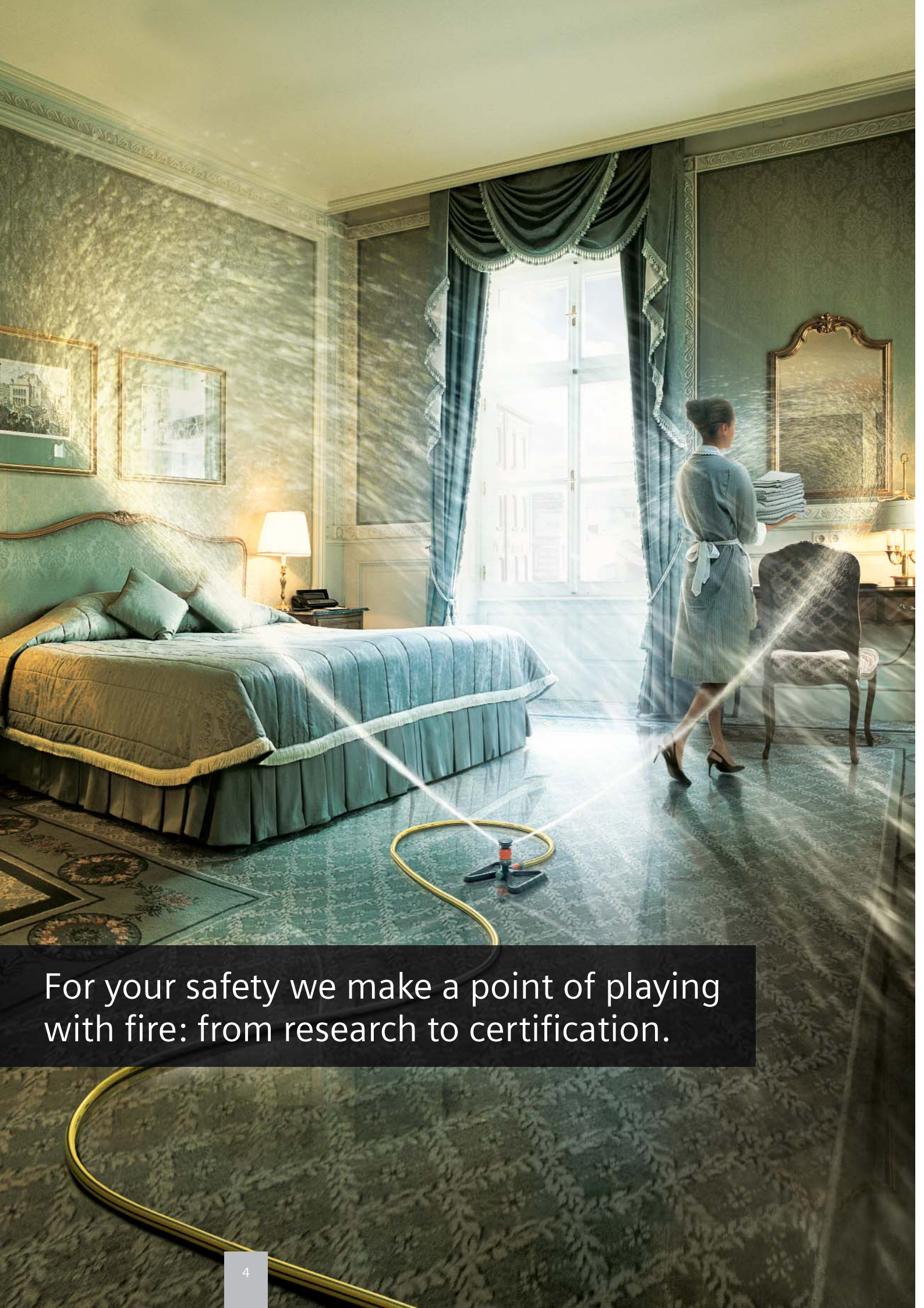


The thought of a cosy evening by the fireside or a campfire probably leaves you with a pleasant, warm glow. Switch the scenario to an uncontrolled blaze in a house or office block and any feeling of safety and security is likely to go up rapidly in flames. This is one of the reasons why fire safety in buildings is assuming an increasingly important role.

The Louvre in Paris, the Capitol in Washington, the international airport in Copenhagen, the Jin Mao Building in Shanghai and the Öresund tunnel between Denmark and Sweden have one feature in common: an all-inclusive safety concept based on tailor-made fire safety systems from Siemens. No matter whether your project is a shopping mall or an airport terminal, a convention center or a manufacturing facility, a hotel complex or a residential area, you can count on us to protect the lives of the occupants and users as well as the material goods and intellectual property they contain. Which in turn safeguards your building against loss of image and non-usability.

Choose Siemens and you have a partner who knows your priorities and shares your own high standards. We are acutely aware of how quickly risks can turn into real dangers for people, property and the environment. And that is precisely the reason why our customers appreciate having a partner whose many years of practical experience, unmatched expertise and revolutionary product development guarantee them an all-round, made-to-measure fire safety solution.





For your safety we make a point of playing with fire: from research to certification.

The one element a fire needs to get started and spread is oxygen. Which means that wherever people live or work, the danger of fire is literally in the air. Generally speaking, it is not possible to rely on the building or its design alone to prevent a minor, localized fire turning into a full-scale conflagration. This is why effective fire safety is critical anywhere. We can speak of effective fire detection only when two conditions are fulfilled: first, the fire needs to be correctly detected and reported; second, appropriate measures need to be taken with a minimum of delay. Only if this is the case we can eliminate fire and associated damage completely or at least keep its effects to a minimum.

Pushing back the boundaries in fire research.

For over 150 years Siemens has been carrying out intensive research into the effects of fire. In the world's largest privately operated fire testing laboratory we run through every possible fire scenario from beginning to end time and time again. With the result that our researchers have managed to generate a stream of innovations that set new standards. After development in our laboratories and manufacture in our factories, all these products and systems have passed stringent testing under the most exacting conditions. All signed and sealed by various state-run standards institutes.

An unwavering commitment to safety and quality.

The uses and purposes for which buildings and rooms are designed are just as diverse as the appropriate fire safety measures. An airport, for instance, has very different fire protection requirements from those of a museum while the emission levels of a hotel kitchen differ massively from those of a furnace room, a conference room or a bank. No matter how complex your fire detection, alarm, evacuation or extinguishing needs, our consultants and designers work closely with you to define, plan and install a system that meets them precisely. The one factor that remains the same throughout is our commitment to high quality and safety standards.

The smart approach to fire containment.

Regardless of the type of building, the number of seemingly insoluble factors or the potential sources of danger, you can rest assured: our smoke, flame, air sample or multicriteria detectors come with multilayer signal analysis and intelligent interpretation algorithms to recognize and locate any fire, no matter how small. And only activate the alarm if there is a real danger.

Our state-of-the-art alarm systems relay details of a fire instantaneously to a central unit, where it is analyzed. After this, the fire-fighting unit is notified automatically or manually and the evacuation and extinguishing systems activated as necessary.



More security: from application to central unit.

Apart from its advanced fire detection systems, Siemens offers a full portfolio of fire safety solutions that includes gas detection, automatic extinguishing systems and evacuation systems, among others. The fire safety systems dovetail perfectly with Siemens security solutions and building automation systems to create our "Total Building Solutions".

■ Fire detection systems.

The intelligent fire detection systems from Siemens provide reliable, early warnings of smoke, heat and flames and are at the same time virtually unaffected by deceptive phenomena like steam, cigarette smoke or exhaust fumes. These features are the result of years devoted to optimizing the design of our various fire detectors and our uniquely innovative **ASAtechnology™** signal processing system. Our leading-edge fire detectors are also highly resistant to environmental factors such as humidity, fibers, vibrations, dust or electromagnetic interference.

The latest fire detection system from Siemens is a model of flexibility and exceptionally economical. It allows the user to customize his detection parameters to suit prevailing site risks and conditions.

■ Gas detection.

In order to nip the danger of a fire or explosion in the bud, ultrasensitive gas detectors recognize the presence of inflammable gases in the air. When this happens, countermeasures are activated immediately: the gas supply, for example, is interrupted, the ventilation system regulated or the alarm set off at the fire department.



■ Alarm and evacuation systems.

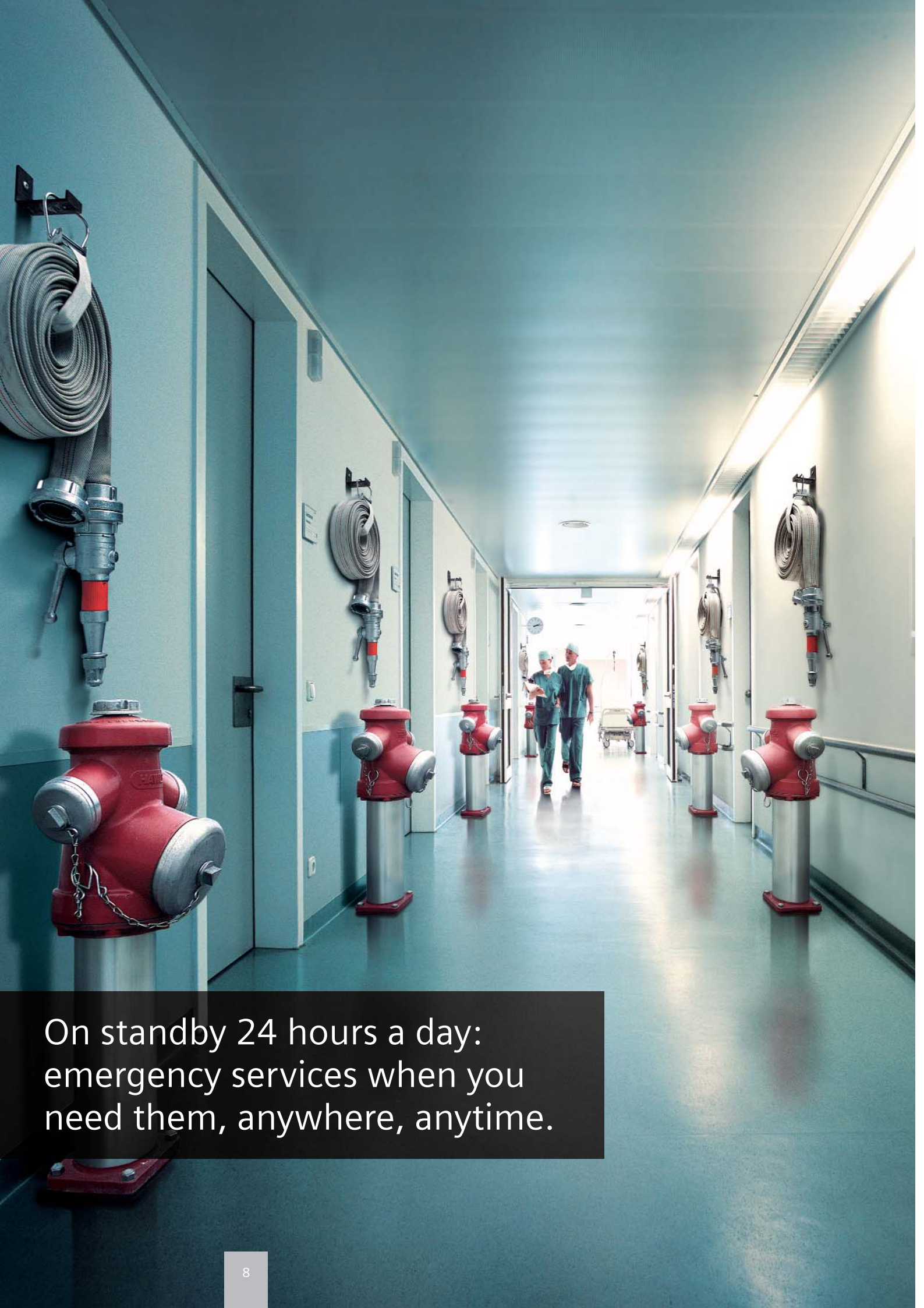
The effectiveness of clear, unambiguous communication in a crisis scenario is demonstrated impressively in the case of fire protection. An electroacoustic or voice-controlled alarm and evacuation system is the best solution for everyone in any situation like this. Unmistakable fire alarm signals, reassuring rules for conduct and explicit instructions help to avoid outbreaks of panic and the ensuing chaos.

Another critical feature common to all our alarm and evacuation systems is the fact that the technology behind them, without exception, represents the state of the art. A range of advanced components meets the most exacting requirements in terms of reliability, safety and flexibility. And in order to cover any contingency, our systems function equally well on standby power supplies. Last but not least, loudspeakers, amplifiers, language storage devices, control processors and cabling all have built-in redundancy.

■ Extinguishing systems.

Every application requires a specific type of extinguishing agent. Regardless of whether you need an inert, chemical or water-based system, you can rely on us to come up with one that is tailor-made for your risk. And it means we can safely claim that any fire which breaks out on your premises will not automatically destroy your company's chances of survival. Finally, our solutions are not only the best ones available for you: they are also good for the environment.





On standby 24 hours a day:
emergency services when you
need them, anywhere, anytime.

The swifter, safer way to effective fire protection.

Siemens has a comprehensive approach to projects that calls for more than mere promises to our customers. From the initial planning phase, via installation and through to training and maintenance we cooperate closely with you to define the project specifications, avoid possible risks and finally draw up your own personalized fire safety concept.

■ The on-call service team from Siemens is on duty around the clock. And with our software-supported remote maintenance capability, a mouseclick makes us faster than traditional fire protection companies.

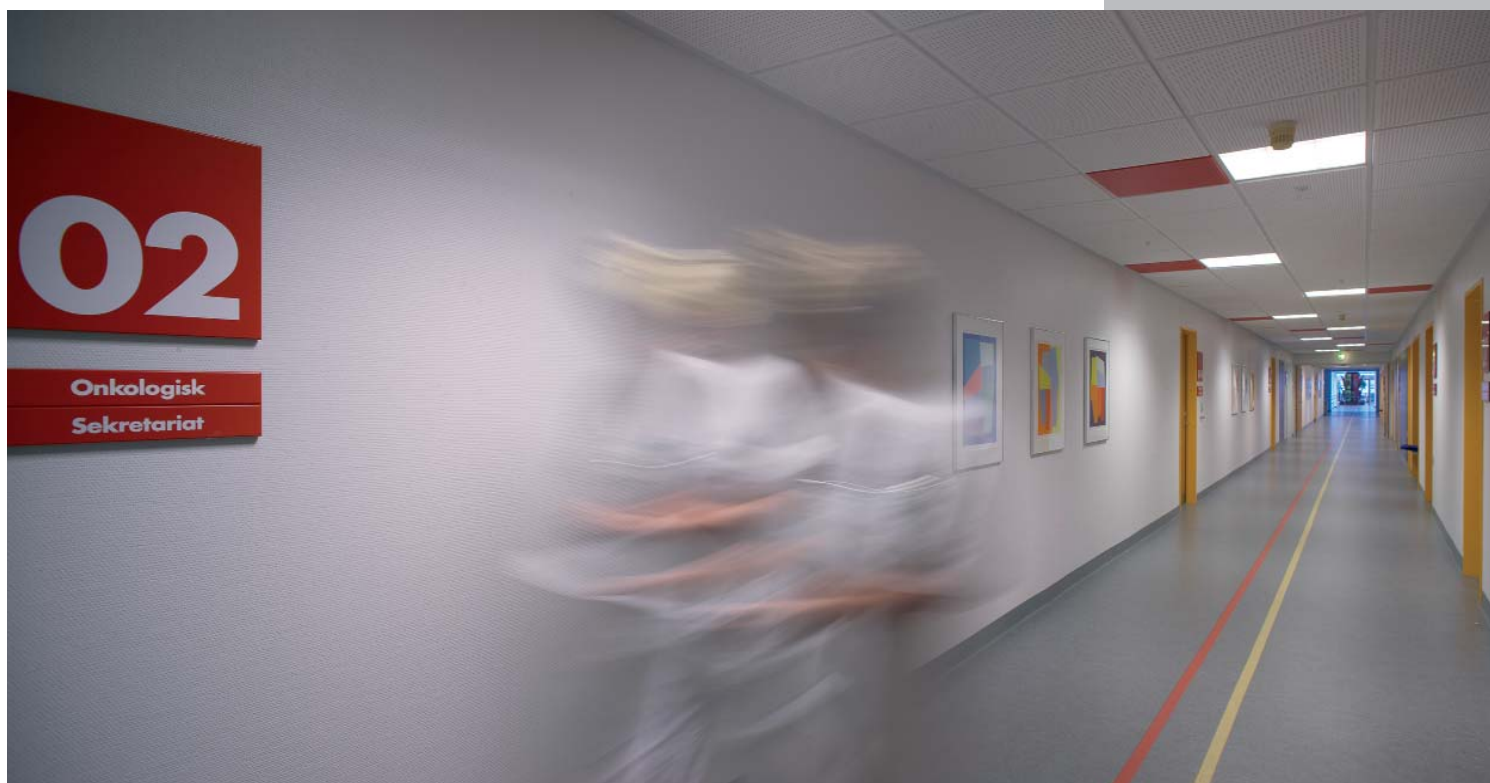
■ For even more safety you can have your system overhauled at regular intervals as part of our proactive prevention program.

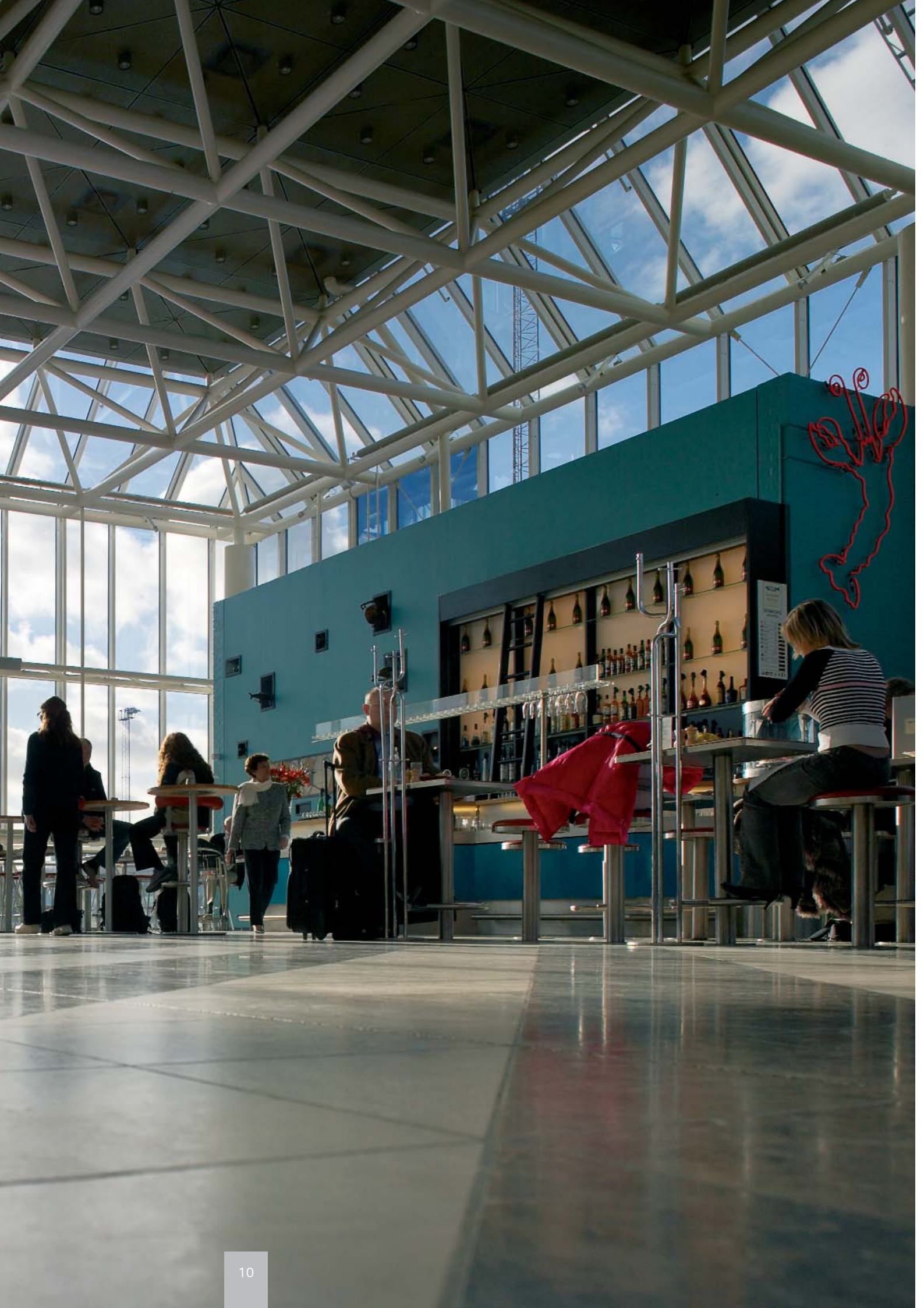
All you need to make your system work.

■ A dense network of subsidiaries, service centers and spare parts stores ensures that a specialist with the necessary expertise and infrastructure is always close at hand.

■ Thanks to our clearly structured, onscreen user guidance system, you can be sure of taking all the right steps automatically in the event of an alarm.

Siemens can offer you attractive financing options for your fire safety solution. Talking of finance: the low operating and maintenance costs of our systems as well as their built-in compatibility with existing components and future upgrades not only guarantee optimum protection against fire, but also for your investment.



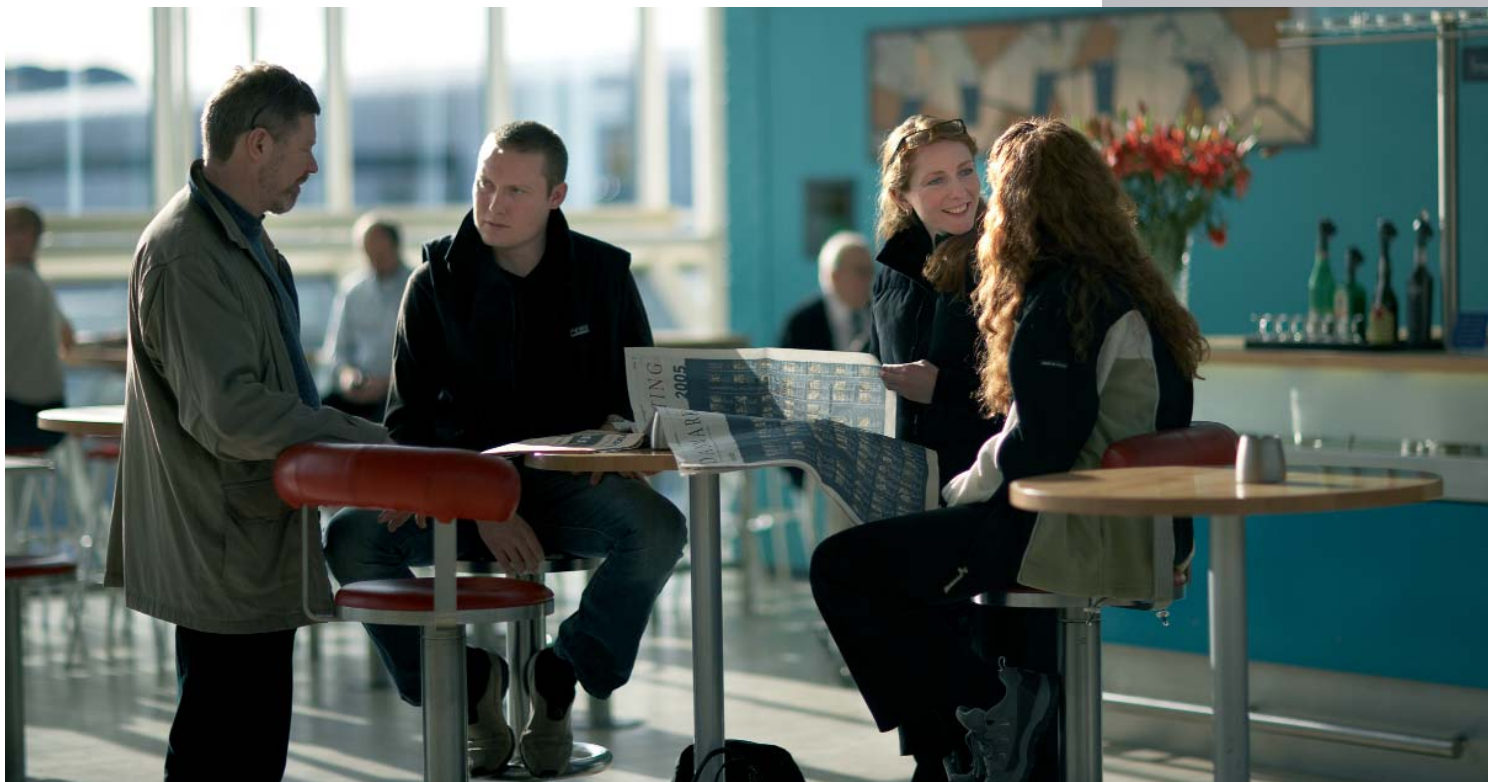


We've got even more irons in the fire for you: from individual benefits to overall profit.

Fire protection is another striking example of how a whole can be much more than the sum of its parts. Fire detection, alarm, evacuation and extinguishing systems that are designed to work together offer more effective protection than individual, separately purchased solutions. On top of that, an all-in management system can make your fire safety measures an integral part of a much more wide-sweeping package of security measures, including intrusion protection, access control and CCTV surveillance. With this you have a comprehensive danger management system at your disposal to protect you, your fellow human beings and your material goods even more effectively.

Your total security concept will also harmonize perfectly with the heating, ventilation and air-conditioning systems from Siemens. All in all, Siemens is the ideal partner for more security, convenience and life quality in any building.

If we have managed to fire your enthusiasm for our protection systems, call us to arrange an appointment with our consultants free of any obligation to yourself. Alternatively, if there is a burning issue to which you need an answer immediately, visit our website at www.sbt.siemens.com.



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The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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