



Project reference:
Bodensee-Therme Überlingen
relies on security from effeff

 **effeff**
ASSA ABLOY

ASSA ABLOY, the global leader
in door opening solutions

Bodensee-Therme Überlingen relies on security from effeff

Here you can feel safe and secure: With the effeff escape route systems by ASSA ABLOY Sicherheitstechnik GmbH, Bodensee-Therme Überlingen guarantee their visitors absolute safety - and with it twice the bathing pleasure. The uncompromising safety for people and the highest possible protection for property is comprehensively provided with the effeff escape route systems: Irrespective of whether the doors are to be automatically locked or used with authorization, a safe use of the escape routes in emergency situations is guaranteed at all times.



Distinguished attraction

Bodensee-Therme, awarded five Wellness Stars by the Heilbäderverband [Association of therapeutic Baths] of Baden-Württemberg, is one of the crowd pullers on Lake Constance, the largest lake in Germany on the border triangle of Germany, Switzerland and Austria. It scores both with its position direct on the waterside and also with its architectural peculiarities: The building, designed by Prof Dr Ing Rudolf Wienands of the Technical University Munich with three glass cubes, was awarded the international

architecture prize of the International Olympic Committee (IOC) and the International Association for Sports and Leisure Facilities (IAKS), the IOC/IAKS Gold Award in 2005. The cube-shaped glass blocks, that reflect the building development round the spa, are the force behind the three functional areas, sports and thermal pool, spa and sauna. The generously glazed south façade with an undulating roof opens to a magnificent view over the lake and the Swiss mountains and optimizes the natural lighting and ventilation of the pool.



Flexible and efficient Escape Route Technology



Safety and security for 355 000 visitors

Around 355,000 visitors are annually attracted by the Bodensee-Therme - a large number of people whose safety has to be guaranteed daily. "The safety of our guests is our highest priority," explains Oliver Sternagel, the manager of the Bodensee-Therme Überlingen. "Despite strict legal safety requirements in Germany and all conceivable preventive

measures, anywhere where a lot of people meet together there is the possibility of unpleasant incidents with sudden panic reactions," Sternagel goes on. "We are prepared for any eventuality – with effeff's escape route technology." It is firmly fixed in the regional building regulations that the escape routes in public buildings must

Safe emergency exit and protection from unauthorized access

always be easily accessible without outside help. All persons who are in a facility at the moment of a particular danger, for example in a fire or a mass panic must be able to leave it as quickly as possible. This mostly conflicts with the security needs of the building managers who want to protect their facilities from unauthorized access. With the effeff escape door terminal 1338-20 by ASSA ABLOY Sicherheitstechnik GmbH the Bodensee-Therme Überlingen guarantees the secure operation of the escape route doors irrespective of whether the doors are to be automatically locked or used with

authorization. At the same time, a completely safe use of escape routes is possible at all times in emergency situations. The solution from ASSA ABLOY Sicherheitstechnik GmbH corresponds to the "Richtlinie über elektrische Verriegelungssysteme von Türen in Rettungswegen (EltVTR)" ["Guideline on electrical locking systems for doors in escape routes"] that the Deutsche Institut für Bautechnik [German Institute for Building Technology] has decreed and that is accepted as the standard for the legal building regulations for the manufacture and testing of escape door systems.

Compact and flexible: effeff-escape door terminals

"The advantage of the escape door terminals 1338-20 for us is in its compactness. The power supply is integrated in the terminals as is also the BUS connection," explains Oliver Sternagel. "That means that a later networking, for example with access control or fire warning system, is child's play. So everything is in the device that we will perhaps use at some other time." And the product manager for electric escape door systems at ASSA ABLOY Sicherheitstechnik GmbH, Ulrich Rotenhagen, adds: "On the electronic control device of the effeff terminals central systems such as building control technology or danger alarm systems can be switched on. Our

escape door terminals are network-compatible and can be easily integrated into building management systems." Moreover the effeff escape door terminals are characterized by their clear acoustic alarms. "The loud Piezo signal device of the terminals ensures attention and guarantees the timely warning of the guests in case of danger," explains Ulrich Rotenhagen. "For us it is important that the alarm is clearly recognized by all the guests whether they are children or elderly people," says Sternagel "Particularly in a leisure pool, the noise level is very high. So we are dependent on reliable technology. In the Bodensee-Therme Überlingen the escape

Perfect engineering for high-quality architecture

door locking element is provided by the escape door strike 331. "The effeff escape door strike 331 has established itself on the market," explains Ulrich Rotenhagen. Its advantage: It is concealed once installed. Thus it allows itself to be fully integrated into the geometry of the door. "For a facility like the Bodensee-Therme that is an important aspect. Conspicuous locking elements do not suit our architectural concept," says Oliver Sternagel. Alongside this however the technical aspect also plays a part: The internal passage height and width of the escape door is not reduced by the 331 electric strike. At the same time the integrated supervision contacts for door status and locking alarms ensure a comprehensive protection from manipulation. As a mating component to the escape door strike the mortice latch bolt lock 807-10 is used in the Boden-

see-Therme. This is the optimum combination: The mortice latch bolt lock and also the FaFix feature of the door strike ensure that the door strike latch bolt is adjustable and fixable. That facilitates not only the initial installation but also makes for an uncomplicated retrospective adjustment - which is a great advantage particularly in a pool where the doors are subjected to constant fluctuations because of heat and moisture. "By retrospective adjustment we save costs and time as the electric strikes do not have to be dismantled or replaced," Oliver Sternagel is pleased. "With the ASSA ABLOY brand effeff we are not only on the safe side but have also invested in long-term cost-effectiveness."

Arguments for emergencies

Advantages

- power supply unit and BUS connection are integrated
- networking possible
- the system can be extended without problem
- emergency button with protective cover that is not destroyed by actuation

Performance characteristics

- loud Piezo signalling device
- key switch for the functions door locking on/off, alarm reset, temporary release
- light-emitting diodes for door locked/unlocked/alarm display
- cover contact for sabotage monitoring
- humidity class F
- protection rating IP 30
- operating temperature range: - 0° C to + 40° C



1 effeff escape door terminal 1338-20

2 effeff escape door strike 331



"The safety of our guests is our main priority!"

Oliver Sternagel, Operations Manager of Bodensee-Therme Überlingen



Characteristics

Premises: Bodensee-Therme Überlingen
Area: Thermal spa and leisure pool with sauna park
Visitors: 355,000 per year
Construction period: Nov. 2001 till Nov. 2003
Architect: Prof. Dr. Ing. Rudolf Wienands, Senior Professor at the Technical University of Munich

Challenge

The Bodensee-Therme Überlingen spa was looking for an escape door system that would guarantee uncompromising safety and security for their visitors and at the same time protect from misuse such as for example unauthorised access. Furthermore the escape door terminals should be compact and space-saving but at the same time fulfil all technical demands. Moreover the system should have the greatest possible options for upgrading and networking so that later functions such as access control or danger alarm system, e.g. by a fire alarm system are possible.

Solution

With the effeff escape door terminals 1338-20 from ASSA ABLOY Sicherheitstechnik GmbH in the Bodensee-Therme Überlingen, devices are employed that display a combination of control unit and door terminal. Inside of these compact terminals, central systems, such as for example building control technology and danger alarm systems etc., can be activated on the electronic control device. The solution from ASSA ABLOY Sich-



1 Outdoor pool at Bodensee-Therme Überlingen

2 Escape door terminal 1338-20

erheitstechnik GmbH corresponds to the "Richtlinie über elektrische Verriegelungssysteme von Türen in Rettungswegen (EltVTR)" ["Guideline on electrical locking systems for doors in escape routes"] that the Deutsche Institut für Bautechnik [German Institute for Building Technology] has decreed and that is accepted as the standard for the legal building regulations for the manufacturing and testing of escape door systems.

ASSA ABLOY is the global
leader in door opening solutions,
dedicated to satisfying
end-user needs for security,
safety and convenience



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