

AESTHETIC FIRE PROTECTION

Pasing Arcaden München

In March 2011, the new „Pasing Arcaden“ shopping centre opened in Munich. Over three floors, it offers a total area of 39,000 square metres, 150 shops and 60 exclusive apartments. The centre is an example of just how elegantly fire protection can be incorporated into a design concept.



The task

Modern shopping centres are an inviting place for a stroll. Goods from all over the world are on sale in the fully air-conditioned malls, optimally illuminated and without any obstructions. The „Pasing Arcaden“ Munich promises this shopping experience.

The extraordinary architecture with curved shopping corridors, v-shaped roof and cubature, which resembles a cruise ship, comes from the Munich architects Allmann Sattler Wappner.

In addition to the aesthetic wishes and ideas of the builders, strict fire prevention regulations had to be fulfilled because the centre is designed for a high influx of visitors – on the opening day alone, around 80,000 visitors streamed through the passageways.



The solution

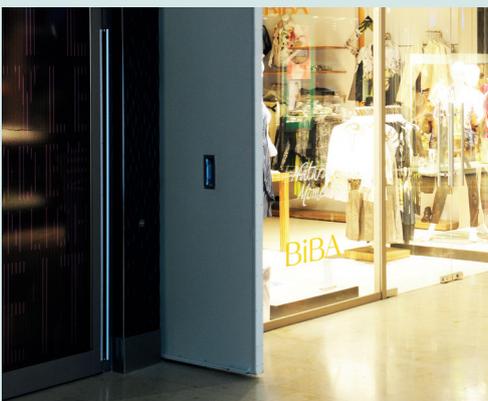
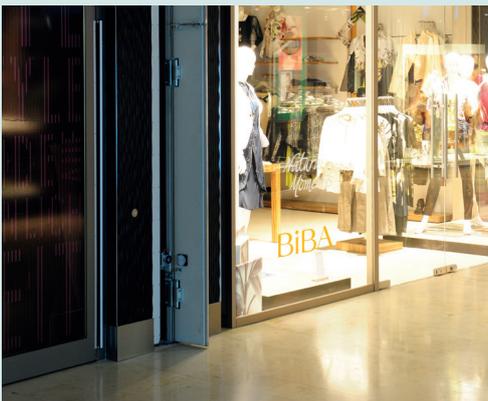
Fire protection is primarily functional – although clearly defined in the standard, but without the aesthetic demands. In the „Pasing Arcaden“ both sides should be combined in an exemplary manner.

The centre shows how elegantly fire protection can be integrated into a design concept: well-designed covers conceal the Teckentrup fire doors in the passageways. In the underground car park, technically sophisticated solutions, such as doors with extreme dimensions, are required.

Elegantly embedded in a wall slot between two stores, T90 fire protection sliding doors are hidden in the building structure. They are therefore not visible during normal operation. A rail in the ceiling ensures the reliable operation of the doors. In the event of a fire, the recess traps open automatically so that the doors slide into the corridors and provide 90 minutes of fire resistance. An automatic control system closes them independently, triggered by the smoke detector or a trigger switch, and also in the event of a cable break or power failure. In addition, an alert is given in the management centre. Barrier-free wicket doors keep the escape route free even when the door is closed.

Fire protection with style

Behind the attractive covering are the Teckentrup T90 fire protection sliding doors. In the event of a fire, the recess traps drop down and the doors slide „out of the wall“.



The special attraction of the elegantly hidden fire doors is the integration into the visible surface: decorative stainless steel recess traps disguise the T90 doors which are around six metres wide and four metres high. This covering has the effect of a deliberate turning point of design between the rows of shop windows. Probably only a few people will suspect that a technically necessary component is located behind them.



Safe movement of people and goods

A special solution was designed for the upper entrance and exit to the Arcaden garage: in order to achieve the greatest possible access (6.70 x 3.00 metres), a „ThermoTeck“ roller shutter with a tubular motor was installed. In this way, the „clear passage“ is around 30 centimetres wider compared with the standard assembly with console. The lower entrance and exit into the garage is even greater; the roller shutter here measures 9.94 x 4.2 metres and is painted to match the look of the concrete facade (RAL 7038, agate grey).

For the delivery of goods, vehicles drive through a 40 m² large multi-purpose sliding door. This allows trucks or other large vehicles to pass easily; the door measures 9.00 x 4.35 metres. People can pass through the door via a barrier-free wicket door. Trucks and other large vehicles can easily pass through the high and wide sliding door to the delivery area.



Attraktive und functional

Paint-finished sliding doors for fire protection: the shopping centre can be accessed from the underground car park via the lifts and stairwells. The T90 sliding doors secure the entire access route in the event of a fire.

In the underground car park with spaces for around 700 cars, tailor-made fire protection sliding doors in width sizes ranging from 2.50 metres to 9 metres take care of fire protection.



Washing, maintenance and repair. A special service centre in the underground car park: while visitors wander through the selection of shops, they can have their car cleaned in a car care centre. The cleaning area which is similar in design to a car workshop can hold two cars, and the entrance and exit are protected with two T30 sliding doors.

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Construction Board

Contractor	Pasing Arcaden GmbH & Co. KG, München
Architets	Entwurf: Allmann Sattler Wappner Architekten, München Ausführung: RKW – Rhode, Kellermann, Wawrowsky, Architektur + Städtebau, Düsseldorf
Project management	Bauleitung Catterfeld und Welker, München
Duration	2008 - 2011 (1 st construction stage)
Construction sum	190 million Euros (1 st const. stage)



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