



## Location item report

*Innovation for your Protection!*

### Safe escape route by means of innovative fire protection closure at the 'General Clinic', Bad Segeberg

*At the General Clinic in Bad Segeberg the escape route leads from the staircase via the entrance foyer outside. The reception desk had to be secured as a fire load in the escape route with a textile fire protection closure. This report describes potential local use.*

The General Clinic of the Segeberger Clinic Group has recently received a new appearance. The entrance foyer with its modern façade structure and abundant glass and steel typifies the new open and transparent architecture which continues in the interior of the building.

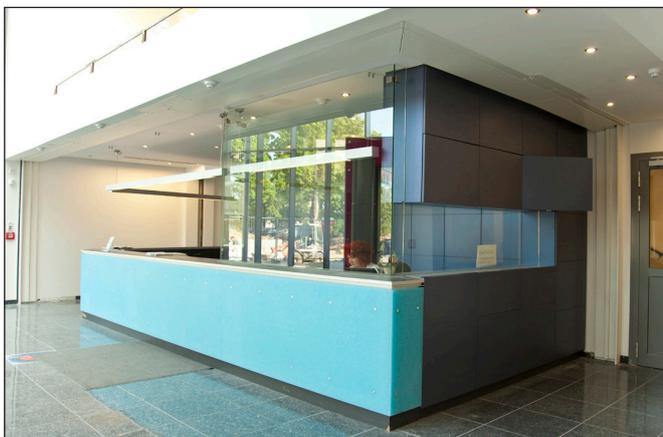
#### Sealing off fire loads

The risk of swift spreading of fire and smoke to other building areas is above average in medical facilities. The reason is, for example, the existence of highly flammable materials, such as dressing material, bed-clothes, mattresses or oxygen flasks. Technical units are also a source of danger. Safe sealing off of fire areas and potential fire loads is therefore essential. There was a requirement for a fire protection of the reception desk for the large entrance foyer of the location 'Krankenhausstraße'. In addition, access to the patients' waiting room had to be ensured, which



Outside view of the 'General Clinic', Bad Segeberg

joins the entrance foyer at the side. The system, Fibershield-S was used here. The only textile fire protection closure of this type up to then enabled the realisation of design ideas of the Clinic company and was a milestone in preventive constructional fire protection.



Free-standing reception desk in the entrance foyer



Closed system Fibershield-S

### Invisible fire protection

Especially in the case of open architecture, its original character has to be maintained also with regard to fire protection measures required. Like all fire and smoke protection systems by Stöbich, the Fibershield-S can also be adapted to almost all constructional requirements. Despite a possible unrolling length of up to 6 m, the system can be integrated almost invisibly in suspended ceilings on account of its extremely low housing height. The fire protection closure can no be seen when idle and only unrolls automatically in case of alarm.

### Spatial sealing off around corners, without supports

Up to now, massive fire protection safe supports were specified for fire protection closures which went around corners. However, concrete columns or steel supports do no fit in to the picture of freely designed architecture. This was also the case for the ‚General Clinic‘ in Bad Segeberg which wanted to create a pleasant atmosphere for patients and visitors with its deliberately open design of the foyer.



Connection to wall via unique guide rail



Right-angled course of the closure strip (system here almost completely open)

The aim was to provide fire protection safety of the reception area without impairing spatial design, i.e. without any disturbing constructional segmentation. The Fibershield-S system of Stöbich proves that such architectural requirements and pragmatic fire protection can indeed be combined.

Robert Quentin, company spokesman for the Segeberger Clinic Group: „The textile fire and smoke protection systems of Stöbich have supported us in implementing our design ideas in the course of expanding and converting the General Clinic. We are very pleased with the results.“

No corner supports and guide rails are required for automatic spatial textile fire protection closure. On account of modern fabric folding technology, the system can be installed spatially at angles of 30° to 150°. This means that Fibershield-S is able to replace conventional fire protection solutions used up to now in terms of safety.

### Progressive fabric folding technology

Opening and closing of the curtain is made using the latest folding technology. The fabric used is not stored on a roll shaft in the housing as up to now, but is stored folded. This technology made it possible to realise the textile corner area around the reception desk in the entrance foyer without additional supports. There were no restrictions in terms of architecture and no additional fire protection requirements to be fulfilled.

### Wall connection via revolutionary guide rails

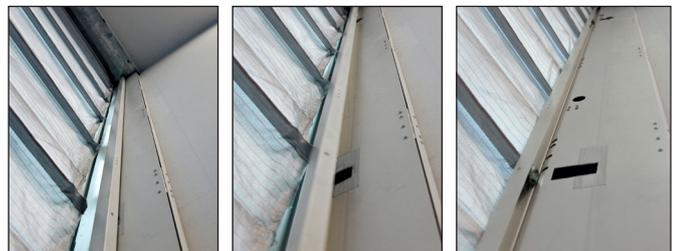
The Fibershield-S can be used as a variant with wall connection or as a closed polygon-like system. In both cases, the textile closure forms an area and ensures fire-resistant sealing off of the enclosed area.

In the case of the Segeberg Clinics, the system variant with two-sided wall connection and a corner gradient of 90° was integrated. On account of the innovative guide rails, the system closes flush to the wall despite unusual fabric technology and there are no residual openings. The special feature is the dual, foldable guide rail. It automatically generates the contact pressure required in order to seal off remaining gaps between fabric surface and wall. Opening is made manually or pneumatically supported, on request.

### Protection in case of power failure

The Fibershield-S operates in accordance with the tested and well-proven Graivigen principle. This means that in order to run the system in case of alarm, neither external energy nor fire-resistant cabling is required. The continuous functionality of the Fibershield-S has been proved over 10,000 cycles.

Using tested and approved catch lock units, the system closes the sealing off area effectively only in case of alarm.



Revolutionary guide rail – opens in case of alarm and closes remaining gaps to the wall connection

### Overview of the benefits of the Fibershield-S:

- No constructional segmentation via supports and guide rails
- Small housing dimensions
- Invisible when idle
- Automatic, area-forming sealing off
- variable surface
- Protection also in the case of power failure