



OPENING THE DOORS TO MUSIC

Elbe Philharmonic Hall

When we think of the „Elbe Philharmonic Hall“ most of us imagine the impressive silhouette – or the concert hall. Although Hamburg’s new landmark is a lot more than that. With a Hotel, restaurant and apartments where a high quality interior design is also in evidence. Functionality may not be the headline stealer but the safe use and operation of the building is a key design element for the “Elphi Organisation” ensuring visitors, residents, suppliers, artists and so on reach their destinations safely and quickly. So a walk around, behind the scenes, is worth it, keeping a close eye on doors and gates and how they interact with the buildings functionality and aesthetic demands.

The task.

When standing on the Elphi-Plaza overlooking the Elbe or listening to brilliantly presented sounds of music in the concert hall, you will surely not think of how many passageways you have passed on your way there. In a building such as the Elbe Philharmonic Hall first-class products are not only installed where they are visible and aesthetics matters but everywhere. You will be forgiven for not considering the mundane, like safety and security. In a concert hall with an auditorium capacity of up to 2.100 spectators the escape routes for instance require time-consuming planning.

In such a superlative building interior design in every detail counts. Thus the doors are chosen due to their functionality and due to their aesthetic criteria: Fire protection and smoke protection have to be harmonised with the creative claim of a flush view.



The solution.

Special block frames with rim widths up to 625 millimetres for two-leaf doors that have the exact same depth as the wall. This also made individual approvals necessary in most cases. That is time-consuming indeed, however in the end it worked out smoothly as our doors in their standard versions are proven fire protection doors.

Although the doors may show uniform visual appearance: their functions are very different. Depending on their place of action they are one-leaf or two-leaf versions, as T30 or T90, some with and some without smoke protection. Where special sound insulation was required, special fastening material had to be used. Approximately one sixth of the doors are opening automatically and around 40 percent of the doors are connected to the access control system, to the burglar alarm system or the central smoke extraction system. To keep escape routes for people with special needs clear, some fire protection doors are mandatory to open automatically. Those solutions are reason for our products being named „door solutions“. In total there are 15 different frame versions with identical visual appearance.

High technical standard and a pleasing aesthetic.

The doors in the delivery zone are in the „Elbe Philharmonic Hall’s black shade“ – also with block frames in wall depth. Stainless steel hinges underpin its elegance and contribute to longevity. Smoke detectors and magnetic hold-open devices provide a high level of functionality in everyday life.

Functional door par excellence.

Two-leaf escape route door with full panic function, powered by an USV fuse, via rotation sensors (detail), coupled with the smoke extraction system. And: known for elegance – even in the car park. The block frames are produced customised to the wall thickness and form a flush surface with the wall.



When passage ways need size.

There are several passage ways that needed industrial doors. Fire protection matters here as well - and just as for the doors aesthetics play a major role, too. As to meet the demanding architectural specifications, many doors are equipped with portal claddings as well as customised header trims and have special surfaces.

Stylistic fidelity: The private area’s exit of the car park is also established with a gate with elegant expanded metal grille filling. The individual casing gives the door-gate combination that little extra twist – including an innovative bottom section following the slope floor.

The entry to the residents’ private car park is secured with an additional Teckentrup sectional door. The elegant ventilation grille filling provides sufficient air circulation. Users are being granted entry via a chip on the windscreen.

Door Solutions for all requirements.

(right) Smoke extraction system and access protection leading to the rehearsal spaces: The first door opens to the „smoke lock“, in which a huge extraction system ensures smoke-free air in case of an emergency. The second door ensures protection against fire and burglary.

(below) T90 revision flap as supply slot.



Construction Panel

Building owner	Elbphilharmonie Bau KG
Architects	Herzog de Meuron
Main contractor	HOCHTIEF Solutions AG
Doors, Gates	Teckentrup, Verl (et al.)
Usage	concert hall, hotel with 244 rooms, residential building with 45 flats, car park
Opening	2017