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## Elbphilharmonie, Hamburg

Cable sealings with individual solutions

## Cable sealing system HVS/HSS for individual cable layout



HVS cable fire protection partition (scenographic); on top: with cover; bottom: filled with fire-stop pads, without cables



Installation of HVS fire-stop pads with the help of the assembly plate



Installation of the partition HSS with a pressure tight cable sealing type HRD 100-SG in combination with the HSS fire-stop pads from one side



Installed cable in the partition S90 system HSS between the tribune and the technical room

### Backstage - safety at fire protection behind the stage

During the construction of the Elbphilharmonie Hauff-Technik was involved from the planning stage in 2009 to the completion in 2016 with tailor made sealing and fire protection products. The requirements in the areas of scenario and stage direction technique were for cable partitions S90 in accordance to DIN 4102 part 9. When no cables are installed these are interlocked and will be continuously opened for the event programme and individually occupied with different numbers of cables and HVS fire-stop pads. In each and every situation the fire protection safety has to be guaranteed. When the event programme is changing, trained technicians will bring the openings back to their original condition.

For this application fire protection tested special wall sleeves from Hauff-Technik were installed in the F90 fire-resisting walls as well as the HVS/HSS cable fire protection system from Hauff-Technik, which allows an individual configuration of cables and always fulfills the requirements of the fire protection.

## Facts

### Project information and solutions provided by Hauff-Technik

#### Project information

Location	Elbphilharmonie Platz der Deutschen Einheit 1 20457 Hamburg
Building owner	Elbphilharmonie Hamburg Bau GmbH & Co. KG
Requirement	Cable partition sealing for fast changes of cable configuration in areas with continuous requirement for this application. Suitable installation with partially only success from one side.
Planning	Arbeitsgemeinschaft Planung Elbphilharmonie Am Sandtorkai 73 20457 Hamburg
Installation company	Lindner AG Bahnhofstraße 29 94424 Arnstorf

#### Solutions provided by Hauff-Technik

Specification	S90 cable partitions according to DIN 4102-9 (mobile cable passes) passing through F 90 fire-resistant walls in the scenographic areas as well as stage direction and backstage technology
Solution	HVS fire-stop pads for one side tuck in installation according to ABZ (General type approval) Z-19.15-1792 with ZIE consent for wall opening up to a diam. of max. 300 mm
Products used	fire-stop pads HVS-K720, HVS-K250/2, HVS KB 60, assembly plate HVS/HSS-MB, HVS-GM, HVS-KS, HRD 100-SG 4/8-30

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