

Instruction sheet

“Instructions on installing sprinkler-compatible ceiling fabrics” 2019

General information on stand coverings

Ceiling surfaces must be in materials that as a minimum meet the requirements of building material classes DIN 4102 (B1) or DIN EN 13501 B-C, allow only limited smoke development at most and do not drip on burning (see Instruction Sheet Building Material Classes, i4.4).

Kitchens and storage areas must always be open to the top.

In the case of closed ceiling surfaces of 30 m² and more, a suitable number of sprinklers, and in halls fitted with smoke detectors (H4A, H7A, H11) a suitable number of heat detectors (rate of rise/differential) are to be installed by the relevant ServicePartner.

The installation of a sprinkler system, and/or rate of rise heat detectors must be provided.

The sprinkler system may only be dispensed with:

- if the ceiling is a grid design, whereby not more than 30 % (CEA 4001S) of the ceiling area may be closed referred to the individual square meters. Allowance has to be made for additional lighting fixtures or other installations in the ceiling. or
- if the ceilings have an untensioned mesh size of minimum 2 x 4 mm, or 3 x 3 mm, and a web width of maximum 1 mm. Ceiling areas can be added up. The fabric covering is to be braced horizontally as a single layer only. Sagging of the fabric covering is to be avoided. or
- if the fabrics used have been approved by VdS Schadenverhütung GmbH Cologne for use in risk areas with sprinklers. The installation of open mesh fabrics must be in accordance with VdS specifications (see VdS approval certificate).

The use of mesh fabrics and materials with "smoke-out" protection is prohibited. You will find an overview of approved sprinkler-compatible fabrics here:

<https://vds.de>

(Brandschutz > Zertifizierungen > Zertifizierungsdatenbank > Wasser-Löschanlagen > Abspanngewebe)

Basic requirements for stand coverings:

- Several ceiling sections of up to 30 m² are possible within a stand provided there is a minimum distance of 3.00 m between the individual ceiling sections.
- So as not to exceed the maximum area of 30 m² when adding up several ceiling sections, **a distance of minimum 1.50 m to the stand boundaries must be maintained**. Any reduction of this 1.50 m distance (e.g. to the gangways) must be approved by the Exhibition Technology Departement.
- A test certificate on the construction material class, fire, smoke and dropletforming behaviors of the material used, and/or the VdS certificate is to be kept at the stand during the assembly period. In addition, samples of the materials used must be kept on hand for a fire test on site.

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