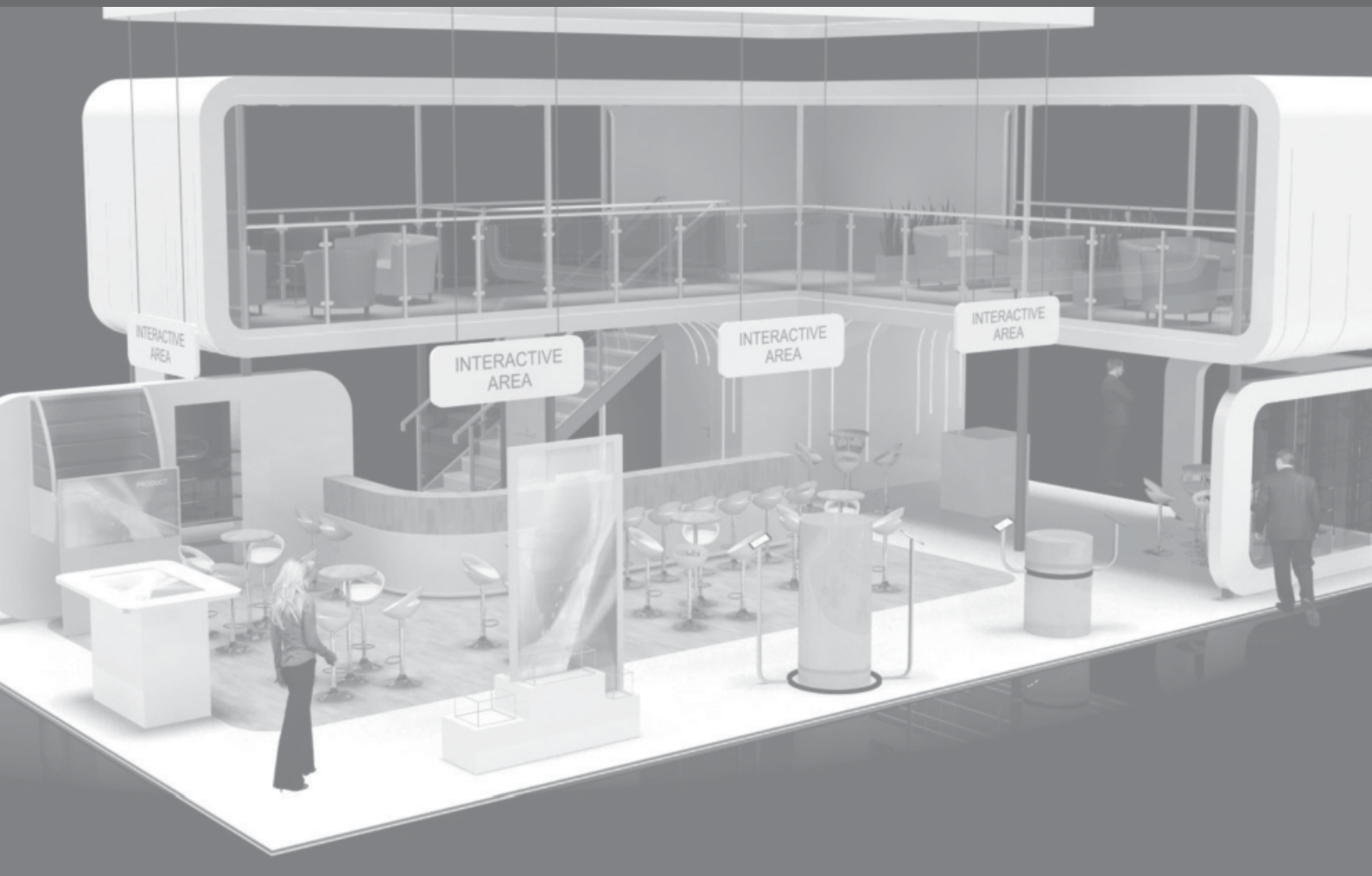


Multi-storey stands

Special structures, show trucks and promotional vehicles,
platforms and walk-on superstructures



2022

Application for construction permit

Guideline

Sprinkler system (order form)

Smoke and heat differential detectors (order form)

Application for construction permit for multi-storey stands, special structures, show trucks and walk-on superstructures 2022

Event

Please return to
NürnbergMesse GmbH
Exhibition Technology Management
Messezentrum
90471 Nürnberg, Germany

veranstaltungstechnik@nuernbergmesse.de

Company

Street

Postcode, town, country

Tel.

Fax

E-mail

Return deadline

Hall/Stand

at the latest 6 weeks before start of assembly

Person to contact

Tel.

Fax

Invoice address (only if different)

We apply for approval of a multi-storey stand, special structure, show truck or walk-on superstructure:

Stand space _____ m²

Usable space on upper floor _____ m²

Usable covered space on ground floor _____ m²

All plans, descriptions and calculations are to be submitted as originals and signed and dated by the author. This form is also to be signed by the exhibitor if no power of attorney exists.

The load-bearing construction can be inspected for acceptance on _____

The fee for review and approval of multi-storey stands is EUR 6.70/m² of covered stand space, but minimum EUR 1,040.

The fee for review and approval of special structures, show trucks or walk-on superstructures is EUR 680.

The fee for inspection and approval will increase by 100 % if the above-mentioned documents are not submitted in full or are submitted late (deadline is 6 weeks before start of assembly).

The stand rental for multi-storey stand structures in exhibition halls (please see application form) is subject to a surcharge of 50 % for the covered stand space.

Exhibition construction company:

Company

Address

Person to contact

Signature

Tel.

Fax

Person responsible for stand design:

Company

Address

Person to contact

Signature

Tel.

Fax

Compulsory registration, documents

Multi-storey stands, special structures, show trucks and walk-on superstructures (from 20 cm high) must be registered with the responsible exhibition team at NürnbergMesse prior to erection. The exhibitor must submit the following documents in digital form (PDF) together with the application for registration:

- Informal description of construction
- Dimensioned stand construction drawings (multi-storey stand in conjunction with ground-level exhibition area) in a suitable scale e.g. 1:100 (floor plans, views, sections) and ceiling plan with dimensioning of closed ceiling surface(s)
- Stand safety test certificate (structural) incl. construction drawings
- Plan drawing with layout of sprinkler heads or smoke/heat differential detectors (only in halls 4A, 7A and 11)
- Order for sprinkler system or for smoke/heat differential detectors

The application will not be processed until receipt of the documents in full. If the documents are not received 4 weeks before start of assembly, the review and approval process cannot be guaranteed.

Water connection in multi-storey stands

If a mains water connection is required at the upper floor a flat-rate of EUR 122 will be charged for the extra effort. Please order the mains water connection and additional equipment in our Online ExhibitorShop.

Building engineer responsible for acceptance:

Company

Address

Person to contact

Signature

Tel.

Fax

Structural engineer:

Company

Address

Person to contact

Signature

Tel.

Fax

Unless otherwise indicated, all prices stated are subject to statutory VAT if the service is taxable in Germany.

Place and date

Company stamp and authorized signature

1. General requirements

The exhibitor is responsible for compliance with the Bavarian building regulations, especially relating to stand safety and fire prevention, other legal regulations, the recognized rules of engineering and architecture and the technical guidelines stated below. In case of doubt, the exhibitor must request information from the responsible authorities.

2. Individual technical requirements

Multi-storey stands, special structures, show trucks, promotional vehicles and walk-on superstructures must comply with the following technical requirements:

2.1 The permissible overall height of multi-storey stands is 5.80 m in halls 1 – 9 and 11 – 12, and 5.30 m in hall 10.

In halls 3A, 3C, 4A, 7A and 11 higher heights may be admissible on request.

2.2 In hall 10, multi-storey stands are only possible on the ground floor and in hall 11 only at level 0 (main hall).

2.3 The vertical loads for the ceilings between floors of a multi-storey exhibition stand or other freely accessible areas within the exhibition hall must comply with Eurocode 1: DIN EN 1991-1-1/NA:2010-12 Table 6.1DE [Cat. C] as follows:

- For **restricted use** by show visitors or stand personnel for meetings and customer support, i.e. furnished with tables and chairs arranged randomly or divided into separate cubicles:

$q_k = 3.0 \text{ kN/m}^2$ (Cat C1)

- For **unlimited use** as freely accessible display and meeting area or sales area with or without closely spaced seats:

$q_k = 5.0 \text{ kN/m}^2$ (Cat. C3 and higher)

The respective usage must be clearly marked on the drawings submitted for approval.

Staircases and stair landings must always be designed for a load of $q_k = 5.0 \text{ kN/m}^2$ (Cat. T2).

To achieve sufficient **longitudinal and lateral rigidity** in multi-storey stands, walk-on superstructures or platforms a **horizontal load of $H = \sum q_k / 20$** (q_k = vertical load) is required at floor height.

For **balustrades and railings** a horizontal load (Cat. C) of $q_k = 1.0 \text{ kN/m}$ shall apply at capping or rail height (height minimum 1.1 m) in accordance with Eurocode 1: DIN EN 1991-1-1/NA:2010-12 Table 6.12 DE. The fall protection function of **outer walls** in the upper floors must be appropriately verified.

2.4 Other stand structures with a height exceeding 4 m must be loaded with a horizontal equivalent distributed load of 0.125 kN/m^2 to achieve sufficient protection against tilting and sliding. The load is to be applied to the vertical projected area of the stand structure. It must be verified that the admissible loads on the hall floor (e.g. due to single supports) are not exceeded (see Technical Regulations Info i4.1 Instruction Sheet Technical Data for Halls).

If necessary load-distributing floor panels have to be provided under the supports. **Service shafts and covers** must be protected by suitable floor panels to prevent loads on them.

2.5 The proof of stand structural stability must take into account that **floor anchors are not admissible in the hall floors.**

2.6 For fire safety reasons a **sprinkler system must be installed** by the responsible ServicePartner to protect the structure.

Individual rooms in the area covered by the stand must be equipped with separate sprinklers. This also applies to areas below the stairs. The sprinkler system is only to be ordered via NürnbergMesse (using form P1.2).

The space covered by a stand in halls 4A, 7A and 11 must be equipped with automatic smoke or heat differential detectors, as sprinklers cannot be used because of the hall height. The smoke or heat differential detectors are only to be ordered via NürnbergMesse (see enclosed form P1.3).

It may be possible to dispense with the requirement to install a sprinkler system or smoke/heat differential detectors in the case of **special structures** but this must be discussed and agreed on in advance.

Hollow areas below platforms more than 0.20 m high which have an automatic turntable or an accumulation of cables and/or electrical distributors or other fire risk must be monitored using VdS certified **smoke or heat differential detectors**. These must be ordered via NürnbergMesse using form P1.3).

2.7 In the case of multi-storey stands and walk-on superstructures the **load-bearing parts** must as a minimum requirement be made from not readily flammable materials (to DIN 4102 or EN 13501-1) or flame retardant structural components. The ceilings of the bottom storey and the floors of the top storey must be made **at least of not readily flammable materials (to DIN 4102 B1).**

2.8 **The walking distance** to the next hall gangway (essential escape route) **from any point on the stand space must not exceed 20 m.** The maximum walking distances must be shown in the drawings (**stand construction drawings**) and the distances specified. This also applies to the upper floors of the stand. Emergency exits and escape routes must be marked. Escape routes through functional rooms (e.g. kitchen, storeroom) are not permitted.

Stands with an accessible area in the upper floors of more than 100 m² must have at least two **staircases** at opposite ends. Staircases must have a minimum width of 1.20 m (clear width) and a tread depth of 0.26 m (clear width) without overlap and must comply with DIN 18065. The rise may be maximum 0.19 m. When determining the tread depth, make sure that undercuts (e.g. in risers) cannot be added. Moreover, when designing the undercut it must be ensured that it is not possible for heels to catch when going down the stairs. In staircases an intermediate landing must be provided after 18 stairs. The depth of the landing should correspond to a multiple of the step length, based on an uneven number of steps. Stairs must not start directly behind a door. There must be an adequate landing (minimum 1.0 m) between the stairs and the door.

Spiral or circular staircases are not allowed.

Staircases more than 2.40 m wide must have centre handrails. Necessary stairs and stairs for visitors must have closed step treads. The headroom must be minimum 2.00 m.

Railings must also be provided with fixed handrails with a firm grip and no open ends and have a minimum height of 1.10 m. They must consist of at least one capping rail (hand rail) and two intermediate rails. Handrails or cappings must be suitably designed to avoid the risk of objects being placed on them. If children are expected to be present in the area to be secured, the separation between the parts of the railings must not exceed 0.12 m in any direction. The fall protection function of outer walls in upper floors must be ensured and verified in the structural calculations.

A continuous **skirting strip** (roll-off protection) with a minimum height of 5 cm must be fitted around the edge of the upper floors.

Due to the design of multi-storey exhibition stands, special structures or show trucks, the general safety lighting in the hall may not work effectively in all areas of the stand in the event of a power failure. To ensure that people can find their way around these enclosed areas through to general traffic areas, you need to install your **own additional safety lighting** (see Technical Guidelines; Section 5.3.5) and consult NürnbergMesse beforehand (see Section 4.2).

Evacuation and escape routes must be permanently marked in accordance with ASR A1.3 or DIN EN ISO 7010, DIN EN 1838 and DIN 4844-1. The doors of these exits must be kept open from the inside to the evacuation direction at all times during the event and must not protrude into the hall gangway. An appropriate niche must be provided in any case.

2.9 Recesses for hall gangways, gates and doors must be provided in multi-storey stands and they must remain accessible. This applies in particular to the designated **emergency exits.**

2.10 If **ceilings above the top storey** are closed design, the general requirements of the **Technical Regulations "4.4.2 Stand Covering"** must be met. There must be a **visual and acoustic connection (e.g. line of sight)** to the hall from offices, meeting rooms, cubicles and other closed off rooms.

2.11 In addition to the **fire extinguishers** available on the ground floor, at least one fire extinguisher per stairway must be provided ready for use, secured from overturning and in a prominent position in the upper floors. The fire extinguisher must be marked in accordance with ASR A1.3.

3. Required documents

Following documents are required for the inspection and approval of multi-storey stands, special structures, show trucks, promotional vehicles and walk-on superstructures (from 20 cm high) as a complete document in digital form (PDF):

– Application for building approval (see enclosed form P1.1)

– Informal description of construction with explanation of planned use of upper floor areas

– Stand drawings (multi-storey stand in conjunction with ground-level exhibition area) in a suitable scale, e.g. 1:100 (floor plans, views, sections) and ceiling plan with dimensions of closed ceiling area(s)

– Stand safety test certificate (structural) incl. construction drawings

– Plan drawing showing the layout of sprinkler heads or of smoke/heat differential detectors (only in halls 4A, 7A and 11)

– Order for sprinkler system or for smoke/heat differential detectors (see enclosed forms P1.2 and P1.3)

The stand design will be approved, endorsed with the NürnbergMesse mark of approval and returned to the exhibitor after the above-mentioned documents have been checked. The stand design is only approved for assembly if it bears this mark of approval. The fee for review and approval of multi-storey stands is EUR 6.70/m² of covered stand space, but minimum EUR 1,040. The fee for review and approval of special structures, show trucks, promotional vehicles or walk-on superstructures is EUR 680. The fee increases according to outlay if the above mentioned documents are not submitted in full.

4. Liability; prohibited use

The exhibitor shall be liable in the event of contravention of the above-mentioned regulations and releases NürnbergMesse from any claims by third parties whatsoever arising out of such contraventions and from any related official requirements. NürnbergMesse is also entitled to prohibit the erection and/or use by the exhibitor.

