

■ Halls

■ General conditions

Two-storey stand construction is permitted with the approval of Messe München GmbH's Exhibition Management, the Technical Exhibitor Service team responsible and the Munich Municipal Fire Department in the following halls:

A1–A6, B1–B6, C1–C6.

Approval for two-storey stands depends on the position of the stand within the hall, and the area it occupies. Since consideration must be given to the overall general appearance of the hall in question, the visibility of signs, and the visual effect on neighboring stands, two-storey constructions may be limited in number or prohibited altogether.

Two-storey constructions must be designed in such a way that it is possible to install and dismantle them within the designated set-up and dismantling periods.

No upper stories may be built across aisles.

The price of the usable space on the upper floor is calculated as a percentage of the rate for ground floor space.

In the case of infringement of any of the conditions specified here, Messe München GmbH reserves the right to take action in accordance with the General Terms of Participation.

■ Approval procedure

The construction application must be submitted to Messe München GmbH—for the attention of the responsible Technical Exhibitor Service division—at the latest **six** weeks before stand set-up is due to begin. The following documents must accompany the application:

- Forms 1.2 "Application Preventive Fire Protection Measures" and 1.3 "Application Special Stand Designs"
- Ground plan of ground floor, dimensioned
- Ground plan of upper floor, dimensioned
- Front and side elevation plans, dimensioned
- Sectional drawings, dimensioned
- Verified (by a certified structural safety engineer) static load plan with statics test report or statics calculation, in open PDF format
- Specification of planned construction, in duplicate
- Any documentation relevant to the given glass structure (mounting position of glazing, glass type, glass thickness, type of mounting, pane size)

All required documents must be submitted digitally in German (official language) or English.

The costs of the approval procedure are to be borne by the exhibitor.

Please note that irrespective of any approval granted for the stand design the builder and/or operator of an exhibition stand is/are responsible for compliance with public statutory regulations, such as the Bavarian Building Regulations (BayBO), insofar as applicable to exhibition stands, as well as with the Terms of Participation of Messe München GmbH.

■ Stand construction

Stands may be installed conventionally or using modular system elements. Materials standard in exhibition stand construction are to be used for floor and wall coverings and ceilings. Easily flammable materials may not be used. The height clearance of rooms inside the stand on both ground and first floors must be at least 2.4 m in the case of stands with two stories. No anchorages in hall floors are allowed.

Positioning of cabins/Design of upper storey

Stairways, open cabins, terraces and catering areas must be set back a distance of at least 3 m to the neighboring stands. If it is not possible to maintain this distance, a closed partition of at least 2 m in height must be installed here as a screen. The side facing the neighboring stand must be finished in white and be of neutral and clean appearance.

Balustrades

Generally accessible areas that are directly adjacent to spaces which are lower by more than 0.20 m must be surrounded by guardrails. These must be at least 1 m high and be equipped with at least upper, central and lower cross-supports. Where open at floor level, an anti-roll batten must be installed on the floor (height ≥ 0.05 m). To prevent objects (such as wine glasses) being placed on balustrades where they can easily fall off, the handrails or tops of balustrades should be designed accordingly, e.g. round or semi-circular in shape.

Stairways/Emergency rescue and escape routes

All stairways must be built to comply with DIN 18065. The width of the escape/rescue routes (exits, stairways, aisles) must be based on the largest-possible number of persons using them and sized accordingly.

They must have a throughout width clearance of at least 1 m. The height between steps may not exceed 19 cm and the step depth must be at least 26 cm. The use of winding or spiral stairways on any escape routes required is not admissible. Handrails must offer a secure grip and be of a continuous nature. Two handrails (one each side) are required for stairways wider than 1 m.

Stairways necessary for upper floors under 100 m² in area: one stairway that must emerge beyond the covered stand space. The escape route following behind must not be located in the covered area.

Stairways required for upper stories in excess of 100 m² in area: at least two stairways, located at opposite ends of the stand. One stairway must emerge beyond the covered area of the stand. Also the escape route following behind may not be located in the covered area.

No items may be stored or shelving installed in areas on or under stairways without risers. Stairways with rooms located underneath them must have sealed joints.

Tensators, barrier tapes, and other barriers may only be used in escape routes if fitted with a panic exit device, i.e. opening automatically or independently in high-pressure situations.

■ Net loads / Load-bearing capacity

1. Ceiling strength:

The net load of the floor of the upper storey of a two-storied stand within an exhibition hall must comply with DIN EN 1991-1-1 (2010) in conjunction with DIN EN 1991-1-1/NA (2010) Table 6.1 DE as follows: if the storey is used for meetings and customer service purposes, i.e. it is furnished with tables and chairs in a free arrangement or in meeting cubicles, it must withstand a net load of 3 kN/m². For unlimited use as an exhibition or sales area, as an assembly room with or without rows of chairs, the floor of the upper storey must be able to withstand a net load of 5 kN/m² (Category C3). The respective use made of it must be marked clearly in the plans submitted for approval purposes.

2. Strength of stairways:

Stairways must always be able to withstand net loads of 5 kN/m².

3. Strength of balustrades / banisters:

Balustrades and banisters must be designed to withstand loads of 1 kN/m at handrail height.

4. Pressure on hall floor:

Proof must be provided that the pressure applied by the supports does not exceed the maximum permissible pressure the hall floor can withstand (≤ 500 kN/m²).

5. Horizontal stabilization (bracing):

The horizontal load is to be assumed to be 1/20 or 5% of the vertical load (net load) for two-storey stand constructions.

6. Wind loads inside buildings (horizontal equivalent distributed load):

Upright structural elements or special constructions (e.g. freestanding walls, tall exhibits, tall decorative elements) that may fall over, must be able to withstand the following horizontally impacting equivalent distributed load q_h :

$q_{h1} = 0.125$ kN/m² up to 4 m height from upper edge of floor;

$q_{h2} = 0.063$ kN/m² for all surfaces above 4 m in height from upper edge of floor.

The reference surface in such cases is the surface potentially exposed. The verification documentation drawn up for this purpose is to be provided at the request of Messe München GmbH.

■ Fire prevention regulations

For more details see also Form 1.2 "Application Preventive Fire Protection Measures" and Notice "Fire Protection Measures at Trade Fairs and Exhibitions"

The maximum length of any escape route from the upper floor to a main hall aisle (connection between the hall gates situated opposite each other) should be 25 m. If the area covered by the upper storey exceeds 30 m², a sprinkler system must be installed in accordance with VdS regulations, with one sprinkler unit to be installed for every 12 m² or part thereof of built-up or covered space. All rooms in this area must be included in the protection provided by the sprinkler system.

Concerning canopies/coverings over upper floor areas, please be sure to contact Messe München GmbH, Technical Exhibitor Service. Metal modular ceilings with a grid opening of at least 1 x 1 cm are allowed. Inclusive of lighting elements, the air permeability of the open area must comprise at least 70%.

Any partitioned rooms on stands in the halls used by staff must offer users an unobstructed line of sight in the direction of escape towards the nearest emergency escape/rescue route. Such rooms used by staff as may be accessed or left via a partitioned room only ('trapped' rooms), are not permitted on stands located in halls. All measures that compromise a clear line of sight in the direction of escape of the nearest emergency escape/rescue route or its accessibility are prohibited. Messe München GmbH reserves the right to impose any safety- or fire protection-related demands that may become additionally necessary until such time as stands undergo official acceptance.

Up until final approval of the completed stand, additional safety or fire prevention measures may also be imposed if deemed necessary.

■ Outdoor exhibition area

With regard to two-storied stand construction in the outdoor exhibition area, please give special attention to the "Notice Outdoor Exhibition Area".