

■ Stand structures requiring approval

All event-related stand structures in the outdoor exhibition area must comply with requirements set out in the Bavarian Building Directive (BayBO) and the Guideline governing the Construction and Operation of Temporary Structures (FIBauR) and DIN 4112 (Temporary Structures; Guidelines for Measurement and Execution) in the versions valid at the given time.

Approval from Messe München GmbH's Technical Exhibition Services Division (TES) must be obtained for structures with a built-over area of more than 50 m² or a height of more than 5 m.

In all cases, a stand safety certificate must be obtained and submitted for stand structures requiring approval in accordance with the BayBO and FIBauR regulations valid at the given time (e.g. multi-storey structures and container installations, tents covering an area of more than 75 m², stages, roof structures, etc.).

■ Stand safety

All stand structures and exhibits in the outdoor exhibition area must be erected such that they stand securely. The exhibitor is responsible for the load-bearing capability and stability of such installations. Local specifics (ground loads as well as anticipated wind and snow loads) must be given due consideration.

■ Working loads/Load assumptions

For multi-storey stand structures, the working loads for upper storey floors, stairways and banisters as per DIN 1055 Part 3 Table 1 should be assumed (see also Notice on Two-Storey Stand Construction).

■ Wind loads

For all stand structures and exhibits in the outdoor exhibition area, regular wind pressure and suction loads as per DIN EN 1991-1-4 (2010), jointly with the DIN EN 1991-1-4/NA national appendix (2010) are to be verifiably taken into account for all bearing roof structures and outer walls with assumed dynamic pressure levels for:

stand structure height up to 10 m	$q = 0.65 \text{ kN/m}^2$
stand structure height of 10 m < h 18 m	$q = 0.75 \text{ kN/m}^2$
stand structure height of 18 m < h 25 m	$q = 0.82 \text{ kN/m}^2$

or wind loads to be determined as per DIN 1055 Part 4 (Edition 03.2005) with the following site-related characteristics:

Munich:	site height < 600 m above sea level
	wind zone II
	reference wind speed: $v_{ref,0} = 25 \text{ m/s}$
	reference dynamic pressure: $q_{ref} = 0.39 \text{ kN/m}^2$

The outdoor exhibition area is to be classified in site category III (city suburbs).

Exceptions to the above are temporary structures with reduced dynamic pressure, which are certifiable as per DIN 4112 4.5:

stand structure height up to 5 m	$q_{red} = 0.5 \text{ kN/m}^2$
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■ Wind Loads For Cranes

As far as inoperative cranes are concerned, regular wind pressure and suction loads as per DIN EN 1991-1-4 (2010), jointly with the DIN EN 1991-1-4/NA national appendix (2010) are to be verifiably taken into account.

■ Snow Loads

For stand construction activities during the snow-free period (15 May to 30 September), no snow loads need be taken into account.

For stand construction activities during the winter period (1 October to 14 May), regular snow loads as per DIN EN 1991-1-3 (2010) jointly with the DIN 1991-1-3/NA national appendix (2010) are to be verifiably taken into account for all bearing roof structures:

Munich:	site height < 540 m above sea level
	snow load zone Ia
	standard snow load: $s_0 = 1,15 \text{ kN/m}^2$ (as per City of Munich circular)

■ Snow Clearance

To the extent that the exhibition area is fully covered by a layer of snow prior to the stand set-up period, snow clearance can be applied for via Messe München GmbH (MMG) (lead time prior to execution: 48 hours).

This measure is executed on a one-off basis by MMG at the request of the exhibitor prior to the exhibition area being occupied to the extent that the area concerned can be accessed by standard clearance vehicles. Once the exhibition area has been occupied, the exhibitor is himself responsible for snow clearance on his own stand.

■ Storm warning

In the event that stormy weather is anticipated with forecast wind strengths of more than 7 Bft (individual gusts too), a general storm warning will be issued by MMG to all exhibitors in the outdoor exhibition area.

Thereafter, exhibitors with wind load-reduced stand installations and/or temporary stand structures as well as installations with a height in excess of 5 m are asked to take all measures in respect of ceasing stand operations without delay.

Instructions given on site by safety service coordinators and MMG employees should be followed in full and without delay.

■ Ceasing operations

In a "cease operations" situation, exhibitors are requested to take the following measures without delay:

1. secure all stand installations and exhibits in accordance with the execution approval conditions (test certificate) and/or operating instructions
2. completely vacate stand installation of fair visitors, guests and staff
3. if necessary, clearance of entire outdoor exhibition area and immediately repair to exhibition halls in accordance with the information and instructions given on site by MMG safety service coordinators.

■ Setting up of exhibits

All exhibits with a height in excess of 10 m require the prior approval of MMG's Technical Exhibition Services Division.

■ Marking of exhibits with a height of more than 50 m

The marking of obstacles to aviation at a height of 50 m and above is required for the exhibition grounds. By daylight, marking with yellow, red or orange paint is sufficient. If other coloring is used, a warning panel (red/white) must be attached to the exhibit in an exposed location. At night, cranes are to be marked with lights in accordance with the General Administrative Regulations for Marking Obstacles to Aviation dated Sept 2004.

■ Laying foundations

As far as foundations work of any kind is concerned, appropriate plans clearly indicating the precise location and size of the given foundations must be submitted to MMG in good time prior to the commencement of the construction work concerned. As a rule, exhibitors are obliged to completely remove all installations at the end of the trade fair. However, such foundations as are needed in the same location for the next trade fair may be left in place, providing they are located at least 0.3 m below ground level and an appropriate contractual agreement has been concluded with MMG.

■ Restoration of exhibition area following completion of dismantling work

All exhibition areas are to be returned to MMG in their original state by the stipulated date for completion of dismantling, whereby the areas to be returned should be reported to the TES for inspection and acceptance.

The sites in the outdoor exhibition area should be cleared and levelled as required and any areas loosened by earthworks compacted.

Any asphalted and cultivated areas will be repaired exclusively by MMG at the expense of the given exhibitor.

In the event that due repair work has not been completed by the end of the dismantling period, MMG is entitled to have this done at the expense of the exhibitor.

■ Miscellaneous

In dependence of the infrastructure required, exhibitors can be asked by MMG's TES to leave a space of 0.5 m to the back of the neighboring stand perimeter free of installations. Any stand set-up work should take account of existing supply lines, distribution boxes etc. To the extent that any such items are located within individual stand areas, access to them must be available at all times.

For damage prevention reasons, no underground work may be started without prior consultation with MMG.

Messe München GmbH's Technical Guidelines apply additionally.