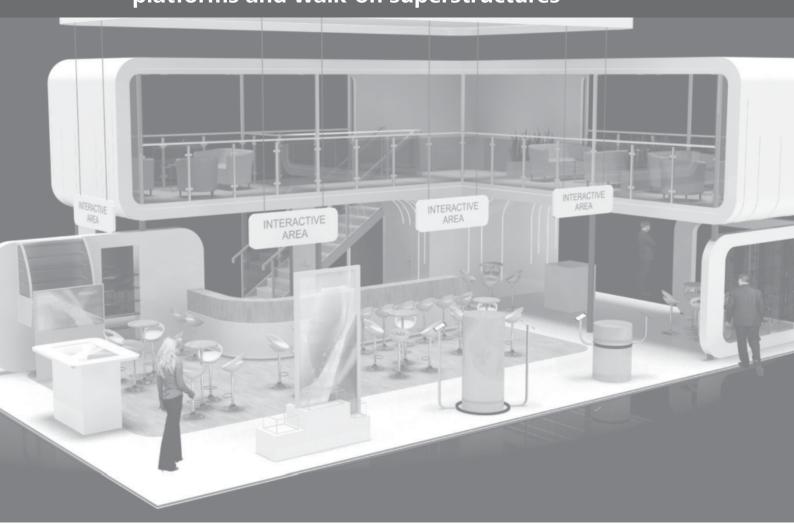
Multi-storey stands
Special structures, show trucks and promotional vehicles, platforms and walk-on superstructures



# 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



P1.1

Event		Please return to NürnbergMesse GmbH Exhibition Technology Management		
		Messezentrum	•	
		90471 Nürnberg, Germany veranstaltungstechnik@nuernbergn	nesse.de	
		Return deadline	Hall/Stand	
Company		at the latest 6 weeks before star	t of assembly	
		Person to contact		
Street		Tel.		
Postcode, town, country		Fax		
Tel.		Invoice address (only if different)		
Fax				
E-mail				
We apply for approval of a mor walk-on superstructure:	nulti-storey stand, special structure, show truck	Compulsory registration, do	<b>cuments</b> ctures, show trucks and walk-on superstructures	
Stand space	m²		stered with the responsible exhibition team ction. The exhibitor must submit the following	
Usable space on upper floor	m²		together with the application for registration:	
Usable covered space on grou		☐ Informal description of con		
	lculations are to be submitted as originals author. This form is also to be signed by the ney exists.	with ground-level exhibition	tion drawings (multi-storey stand in conjunction n area) in a suitable scale e.g. 1:100 (floor plans, n plan with dimensioning of closed ceiling	
of covered stand space, bu The fee for review and app walk-on superstructures is The fee for inspection and a mentioned documents are (deadline is 6 weeks before The stand rental for mult	oroval of multi-storey stands is EUR 6.70/m² t minimum EUR 1,040.  Froval of special structures, show trucks or EUR 680.  Tapproval will increase by 100 % if the abovenot submitted in full or are submitted late	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.		
Exhibition construction co	mnany.	Building engineer responsible	le for accentance:	
Company	inpany.	Company		
Address		Address		
Person to contact	Signature	Person to contact	Signature	
Tel.	Fax	Tel.	Fax	
Person responsible for stand design:		Structural engineer:		
Company		Company		
Address		Address		
Person to contact	Signature	Person to contact	Signature	
Tel.	Fax	Tel.	Fax	
	all prices stated are subject to statutory VAT if the s			
	, ,	,		

### Guideline for multi-storey stands, special structures, show trucks and walk-on superstructures 2022



#### 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:
  - $q_k = 3.0 \text{ kN/m}^2 \text{ (Cat C1)}$
  - 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  $\mathbf{q}_k = 1.0 \text{ kN/m}$  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/m²** 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 NünbergMesse (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 multistorey 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 abovementioned 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 abovementioned 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.

### Sprinkler system 2022

NÜRNBERG MESSE P1.2

Event		Nür Exhi Mes 904	ase return to nbergMesse GmbH bition Technology Management sezentrum 71 Nürnberg, Germany nstaltungstechnik@nuernbergmesse.de	Contractor BSS Brandschutz Sichelstiel GmbH Duisburger Straße 52 90451 Nürnberg, Germany T +49 9 11 6 43 77 77-46 F +49 9 11 6 43 77 77-51 juergen.knebel@ brandschutz-sichelstiel.de		
			turn deadline	Hall/Stand		
Company		at t	he latest 6 weeks before start of ass	embly		
		Pers	on to contact			
Street			Tel.			
Postcode, town, country			<u>Fax</u>			
Tel.		Invo	ice address (only if different)			
<u>Fax</u>						
E-mail		_				
Order		VAT ID number of invoice addressee:				
Installation of a sprinkler system <b>in halls 1 to 12</b> , with the 4A, 7A and 11.  Please note that the water supply for your sprinkler system the ceiling, i.e. the sprinklers cannot be installed until the state been installed.  Exception hall 3A: In this case the water is supplied from the Individual rooms in the area covered by the stand must have so This means that <b>1 sprinkler head</b> with associated pipe net provided <b>per 10 m² covered by the stand</b> .  The area of the upper floor or ceiling surface is  Qty	is provided from tage/frame has e hall floor! separate sprinklers. twork must be m².	2.	Upon order of the sprinkler system the exhibitor will receive an invoice from the ServicePartner covering the installation costs which has to be remitted by the assembly date. Invoices which are not remitted on time can be paid in cash with a surcharge fo late payment of 20 % to the ServicePartner's assembly personne at the latest on the date of assembly.  The invoice must be checked without delay. Complaints concerning the extent of deliveries and services charged are to be lodged if possible before dismantling the stand to ensure that a proper check can be made  This form is to be used for ordering a sprinkler system.  The order together with the stand drawing must be submitted to NürnbergMesse by not later than the stated date.			
stand.  Qty sprinkler heads including all installation fittings and pipes.  The exact position and number of sprinkler heads is not specified until the stand drawing has been submitted.  This order is processed only after receipt of all approval and test documents and by not later than 4 weeks before the start of the exhibition.			3. The ServicePartner will levy the following surcharges on services not notified from 6 weeks before start of assembly or which cannot be commenced on this date due to incomplete or unclear order information: 100 % for fixed-price services and for work at hourly rates. Exhibitors cancelling orders will be charged with the full costs incurred unless the ServicePartner is notified 3 days prior to the start of the exhibition. If the trade fair event is cancelled before assembly begins, the Service-Partner is entitled to charge the exhibitor a 30 % processing fee (for			
Prices, delivery and payment	terms		planning, construction and coord	lination) on the fixed price.		
Basic connection each  Sprinkler heads each  1. – 6. sprinkler head  7. – 9. sprinkler head  10. – X. sprinkler head  Hourly rate  The hourly rate does not include surcharges for overtime, S	EUR 611.50 EUR 507.50 without discount 2.5 % discount 5 % discount EUR 51.00 undays and	<ol> <li>4.</li> <li>5.</li> <li>6.</li> </ol>	accessories are rented out by the property. The exhibitor is to ensure that the undamaged at the end of the ever Missing parts will be charged to each all connections and labour from the stand and in the stand are on	ves and sprinkler heads including e ServicePartner and remain his e items used are fully available and nt for dismantling by the ServicePartner exhibitors at the cost of replacement. the existing sprinkler pipe network to ly to be provided by the ServicePartner ng sprinkler systems is prohibited and		
public holidays. Other work according to material and time expended. The stated prices have been calculated on the wage basis for a 40-hour week. The ServicePartner is entitled to levy a surcharge of 100 % on fixed prices and on work at the hourly rate for services not notified from 6 weeks before start of assembly or which cannot be commenced on this date due to incomplete or unclear order information.  Please note the "Guideline for multi-storey stands".			<ul> <li>entitles the NürnbergMesse to close the stand.</li> <li>Following installation of the sprinkler system it must be commissioned so that the sprinklers are operational and provide protection during the assembly period. The shutoff valve of the infeed pipe must not be closed.</li> <li>7. The ServicePartner is not liable for damage to property and injury to persons caused by pipes which are not his property.</li> <li>8. The place of jurisdiction and fulfillment for both parties, including dunning proceedings, is Nürnberg.</li> </ul>			
Unless otherwise indicated, all prices stated are subject to s	statutory VAT if the s	service		<u>-</u>		

#### **Smoke and heat differential detectors 2022**

NÜRNBERG/MESSE P1.3

Event	Please return to NürnbergMesse GmbH Exhibition Technology Management Messezentrum 90471 Nürnberg, Germany veranstaltungstechnik@nuernbergmesse.de	Contractor *  SPIE SAG GmbH Service Partner Center Messezentrum 90471 Nürnberg, Germany T +49 9 11 81 88 18-0 F +49 9 11 81 88 18-19 sag-messe@spie.com	
	Return deadline	Hall/Stand	
Company	at the latest 6 weeks before start of assemi	bly	
	Person to contact		
Street	<u>Tel.</u>		
Postcode, town, country	Fax		
Tel.	Invoice address (only if different)		
Fax			
E-mail			
Order	VAT ID number of invoice addressee:		
The unlimited availability of connections for smoke and heat differential detectors is not possible everywhere on the site and therefore early registration is necessary. These wired smoke and heat differential detectors are generally used to monitor covered areas in halls 4A, 7A and 11 (Technical Guidelines 4.4.2). The use of these fire detectors in halls 1/2/3/3A/3C/4/5/6/7/8/9/10.0/10.1/12 must be notified to NürnbergMesse (Technical Department) in advance. To avoid unnecessary costs for the customer, orders must be received at an early stage.  Wireless fire detectors (so-called radio fire detectors) are used in halls 3C and 11; in all other halls, the fire detectors are wired. All wired fire detectors are connected with a fire detector cable (BMK J-Y(St)Y 2x2x0.8; red, cable diameter 7 mm).  In the planning for the installation of wired fire detectors, consideration must be given to the necessary attachment point for the fire detectors and where applicable, the necessary cable paths.  The exact determination of the location and number of smoke or heat differential detectors is only possible after approval of the stand drawing by the ServicePartner company SPIE SAG GmbH and NürnbergMesse GmbH (Technical Department).  The entire space covered by stand is	1.3  Connection to existing fire a control centre of NürnbergM Position 1.3 forms the necessary detectors (mandatory order) and	larm lesse fixed charge EUR 225.00 / <u>basis for the installation</u> of fire d is limited to a maximum of etectors. This position includes the	
<ul> <li>1 optical smoke detector per 40 m² of covered space and per room (e.g. exhibition areas, office or meeting rooms, storage areas)</li> <li>1 heat differential detector per 20 m² of covered space and per room if heat development or vapor generation are to be expected (only for use in kitchens, food trucks, exhibits or demonstrations with heat or vapor development).</li> <li>Dimensioned drawing (true to scale) with arrangement of smoke and heat differential detectors is enclosed.</li> </ul>	Orders must be received by the organizer in a complete and correct form by the return deadline set for the respective event. SPIE SAG GmbH is under no obligation to provide services for orders that do not meet these requirements. The ServicePartner is entitled to charge a surcharge of 100 % on fixed prices and work performed at the hourly rate for services that are not yet known 6 weeks before the start of assembly or cannot be begun at this date due to incomplete or not yet usable order data.		

The services ordered must be paid without delay after receiving the invoices. Invoices may be issued before the start of the event.

Further info and the **Special Conditions for Services** of SPIE SAG GmbH for fire detectors are available for inspection on our website at www.spie-servicepartner.de.unter  $\underline{www.spie-servicepartner.de}.$ 

Permissible operating/ambient temperature - 25 °C to 60 °C

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

\* NürnbergMesse is entitled to have another ServicePartner provide the ordered service. In this case, another ServicePartner will be named to the customer in due time. Please refer to the OnlineShop of NürnbergMesse GmbH for the currently applicable prices.

EUR 302.00 each

By our legally binding signature, we fully acknowledge all the general and special terms and conditions of NürnbergMesse, including the information on data protection and the general terms and conditions and special service conditions of the ServicePartners. You can object to our use of your data for advertising purposes at any time in writing (NürnbergMesse GmbH, Data Protection, Messezentrum, 90471 Nuremberg) or by e-mail (data@nuernbergmesse.de). You will find information relevant to data protection, and especially your rights, at: https://www.nuernbergmesse.de/en/dataprotection.

1.1 ☐ Optical smoke detector

including all installations Fulfils EN 54/5 Class 1