



## Safety requirements for the design and construction of double-decker stands.

### 1. Requirements for supporting structures of two-storey exhibition stands:

- The podium under the stand must withstand a load of at least 500 kg/m<sup>2</sup>. The parts of the podium supporting the load of the load-bearing structure of the two-storey stand must be able to withstand a load of at least 2500 kg/m<sup>2</sup>.
- Podium elements bearing the load from the load-bearing structure of the two-storey stand must be able to withstand a load of at least 2,500 kg/m<sup>2</sup>;
- The load-bearing structure of the two-storey stand and the floor slab of the second floor must withstand a load of at least 400 kg/m<sup>2</sup>;
- It is prohibited to use scaffolding and stage trusses as a supporting structure of two-storey stands

### 2. Requirements for exhibition stand fencing and railings:

- open spans of the second floor must be equipped with guardrails.
- Second floor walls with storefront glazing, as well as walls where lightweight infills are used, must be equipped with guardrails.
- second floor fencing structures and staircase railings must be at least 1100 mm high from the second-floor level and prevent various objects from falling.
- second floor envelopes and stair railings must be able to withstand a lateral load of at least 100 kg/m.
- second floor enclosures should be equipped with a floor barrier to prevent the risk of objects rolling and falling onto the first floor.
- the construction of fences should not allow standing, climbing and scrambling on the fences, i.e. have a solid filling (shields) or posts (bars) located strictly vertically with no more than 100 mm between the posts.

### 3. Requirements for ladders and stairs:

- The main ladder of the stand can only be a marching type, the use of a spiral ladder is allowed only as an auxiliary ladder.
- The ladder structure must be able to withstand a load of at least 500 kg/m<sup>2</sup>
- The width of the ladder should be at least 900 mm; the angle of inclination of the ladder should be no more than 38°

- The depth and height of the steps should be the same throughout the whole ladder
- The design of the ladder should include a handrail on both sides of the ladder.
- The depth of the steps should be between 250 and 350 mm.
- The height of the steps should be between 150 and 210 mm.
- The design of the staircase should provide for the presence of sub step.
- If the area of the second floor is more than 100 m<sup>2</sup> and (or) the second floor can accommodate more than 50 people, there must be two ladders (it is allowed to install one ladder with a width of at least 2 000 mm.).
- It is forbidden to install doors or other elements of the stand construction that prevent people from free descent



## Requirements ITE Group for the placement of screens and video walls

1. Screen elements shall have reliable attachment (metal frame).
2. If no frame is provided, the screen should be installed in a niche.
3. The screen shall be fixed in the niche along the perimeter with metal angles and screws.
4. There should be no apertures between the fixing elements and the niche plane.
5. The upper edge of the screen can be not installed in the niche if the structure holds the screen reliably. The weight of the structure should exceed the screen weight.
6. For screens exceeding 3 m in width or height, the niche shall have a vertical beam (every 3 running meters minimum).
7. The beam shall be strong enough to secure the screen from falling down. When a timber beam is used, its section should be 50x75 mm minimum.
8. The screen should be securely attached to the beam with slings or belts.
9. When screens are mounted on hangers, they shall have independent points for attachment to ceiling beams.