

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/m². 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/m².
- 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/m²;
- 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/m²;
- 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/m²
- 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 m² 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

