

FAQ

Frequently Asked Questions



📌 Roof questions

Q: How much ballast is necessary for a small roof structure?

A: Ballast is determined by many different factors of a roof structure and where it is being setup and must be calculated individually. Please contact us for more details.

Q: Is it possible to use my staging as ballast for a roof structure?

A: With basic staging elements this usually is not possible as the connection between decks is not sufficient to act as one solid surface. With some special stage constructions that are connected to ground support and roof, it is possible to factor the self weight of the stage components as ballast.

Q: What is meant by "friction factor 0,6" in the structural calculation report?

A: Ballast performs two key functions, a) to prevent up-lift and b) to resist movement. Friction factors are used in the calculation of ballast to prevent a structure from sliding, different surfaces (and conditions) produce different levels of friction. In roof structures this is applied to the contact between the bases and the ground.

Factors:

Concrete	Steel	→	Factor 0,2
Steel	Wood:	→	Factor 0,4
Wood	Wood:	→	Factor 0,4
Concrete	Wood	→	Factor 0,6

For example:

For a roof structure with steel legs it is generally better to secure wood with screws to the bases as Concrete to Wood has the highest friction factor (resistance) of material conditions specified by the standards authority. If you want to stack wooden plates under the bases, it is essential to attach the wood plates together with screws.

📌 Legal questions

Q: Which paperwork do I need to construct an event/exhibition rig or ground support?

A: The document requirements vary depending upon the type of structure, usage and environments. TUV certification is available for our systems to verify the specification and performance of our products. For complex structures and generally tall constructions additional structural reports may be required based on the actual configuration which must be submitted to local authorities and / or event organisers. Milos offers many services to help our clients meet these requirements.

Q: Up to what size roof do I only need a structural analyses and stability certification?

A: The regulations are different from country to country. For example in Germany upto a height of 5m (16.4') and an area under 75sq.m. (807.27 sq.ft.), a structural report is sufficient.