

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 0,5" 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 0,5

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.