

Seldén Load definitions

Dimensioning loads

Max in Service Load, MSL

The maximum load (forces, bending moments etc.) the rig is exposed to during sailing.

Required Breaking Load, RBL

Different safety factors in different parts of the rig are accepted due to many factors, such as consequences of failure, different margins for racing/cruising, life, etc.

Therefore, the required breaking load for different parts of the rig structure may be different even though they may be exposed to the same MSL.

Component properties

Safe Working Load, SWL

The load a component can take, operating properly for a longer time, with no permanent deformations.

Breaking Load, BRL

The load at which a component breaks.

Safety Factor, SF

Is defined as: $SF = BRL / MSL$