

ST12+

Steel Bracing

The software is suitable for the structural calculation and design of bracing typical in the construction of portal frames:

- Diagonal tying with compression slack diagonal steel struts for buildings with trussed girders

Basis of calculation

The internal forces are determined in a second-order analysis with consideration of the failure of the diagonal compression struts. The approach to imperfections is based on the following optional solution methods:

- DIN EN 1993
- BS EN 1993
- ÖNORM EN 1993
- Petersen

For the diagonal tension struts a verification of the cross section is performed and for the compression posts in addition a stability analysis.

A verification of the chord for the additional axial chord force is not performed in this software.

