

## SRE+

### Framed Corner Steel

Depending on the licensed option, screwed (option SRE-1) or welded (option SRE-2) rigid frame corners can be dimensioned in steel structures.

SRE + provides the necessary verifications of structural safety and welded connections.

#### Standards

- DIN EN 1993
- ÖNORM EN 1993

#### System

Typical variants of one-sided beam-column connections as a T-corner or knee-corner made of double T profiles can be proven:

- T-corner with haunch on one or both sides (corner reinforcement) and inclined beam.

- Knee corner with one-sided haunch (corner reinforcement) and inclined beam.
- Knee corner additionally with pull strap, in the screwed connection optionally also screwed to the head plate.

With welded frame corner

- Additional assembly joint in the beam as a rigid front plate connection in a flush or protruding design.

The load-bearing capacity of the shear section can be increased by arranging diagonal stiffeners or a single-sided web plate reinforcement. Bar stiffeners can be attached to the load-transferring component opposite the connecting straps. In the welded connection, stiffeners are automatically set on the outer straps of the connection and cannot be removed.

#### Loading (Impact)

The design values of the internal forces  $N$ ,  $M_y$  and  $V_z$  are entered. The internal forces must result from predominantly static loads. Changing moments are possible. Several combinations of effects can be entered in a table.

#### Output

The results can be documented in a clear short or long form according to a selectable output profile.

Optional is the graphic representation of the system in 2D or 3D and the output of a freely definable comment on the system.

