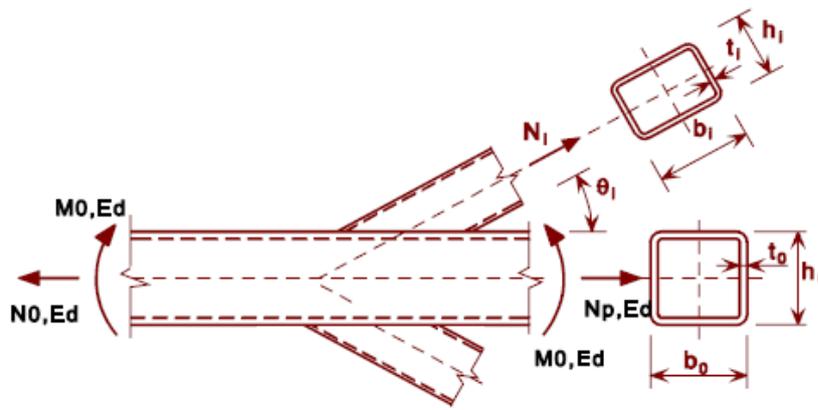## New version of program STeelCON 2015.100

Dear colleagues,

A new version of the "**STeel CONnections**" program for the design of bolted and welded steel connections has been released.

This new version offers many new features :

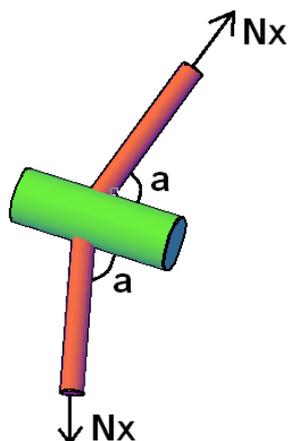o **New connections between tubes. DY type connections.**

The types of connections according to the connected member types are:

CHS Brace to CHS Chord

RHS Brace to RHS Chord

The checks that are performed are based on chap. 7 of EN 1993-1-8 and are:

Chord face failure.

Chord side wall failure.

Punching shear.

Brace failure.

Based on the geometrical characteristics of the nodes the rule defines a range of connections that can be analytically calculated. The validity range evaluation ensures that the failure modes of the connection will be the same with the expected ones by the rule. For connections that belong into the validity range some failure types can be neglected under certain conditions, but for connections outside that range the critical failure mode may not be documented in the rule, so separate handling may be needed. The program performs all the necessary geometrical checks and informs the user in the case that the node is out of the range of validity.

The members may be subjected to axial force and in plane moments at chord, according to the connection type. The program calculates the interaction of these forces according to EN 1993-1-8.

SteelCON is SOFiSTiK Version 27 (2012) as well as Version 30 (2014) compatible and can be operated within the SSD integrated SOFiSTiK environment. All geometrical and topological data as well as forces can be imported from the overall structure. Connection design results are then a part of the SOFiSTiK Output Report.

Installs the following Plugins :
- SSD V30 Plugin (and SSD V27 plugin)

3.4.2015, Munich Germany