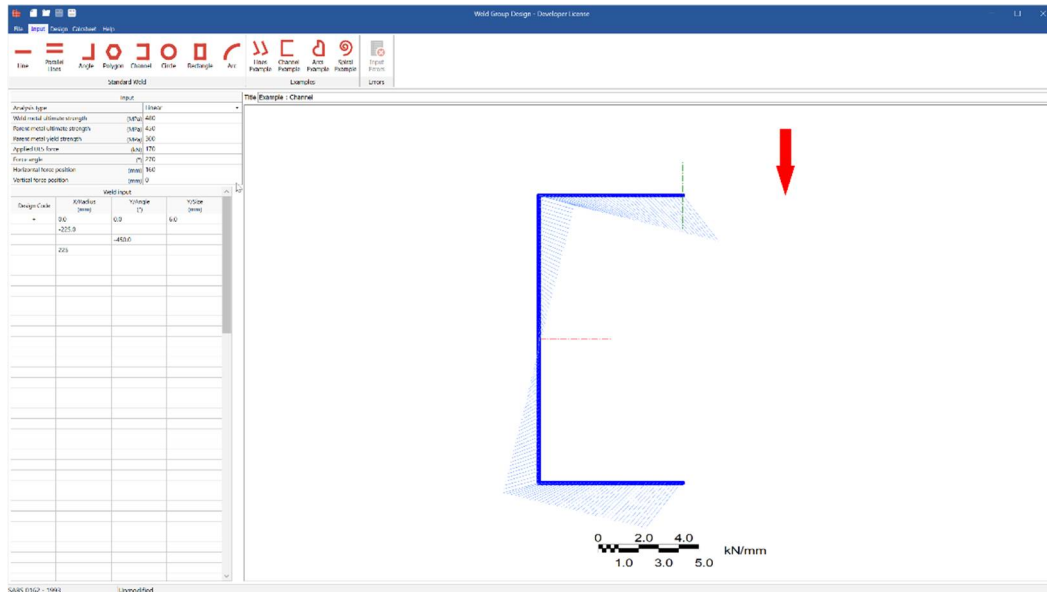


## Summary

**Weld Group** is used to calculate the maximum resistance of a weld group and determine the smallest weld size that can be used to resist an in-plane force with arbitrary orientation.

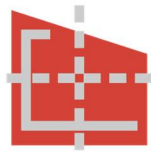


## What makes this module special?

- Evaluate current weld group
- Optimise weld group for economic design
- Linear and non-linear stress analysis
- Detailed Equations

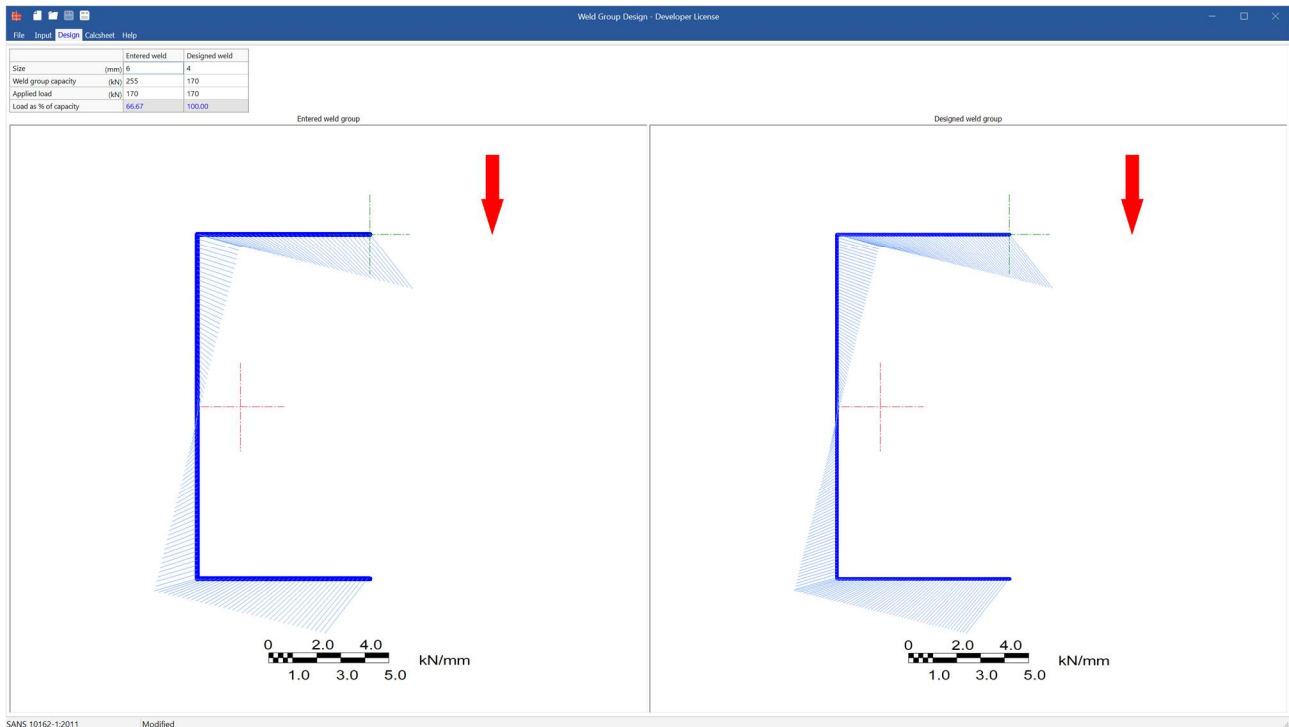
## Detailed Description

**Weld Group** is used to evaluate the capacity of a group of welds subject to an eccentric in-plane force. Any shape of weld can be defined by coordinates in the input table. For the analysis, there is a choice between linear and non-linear. The former assumes that the group's centre of rotation coincides with the centroid of the group, while the latter uses the more accurate instantaneous centre of rotation method. A graphic of the stress distribution is displayed both evaluation and optimisation designs.



# WELD GROUP

Eccentric weld group  
DESIGN | S16



## Supported Design Codes

### Design Codes

- AISC - 1999 LRFD
- AISC 360-16 ASD
- AISC 360-16 LRFD
- AS4100 - 1998
- AS4100:2020
- BS 5950 - 1990
- BS 5950 -2000
- CAN/CSA-S16.1-94
- CSA S16-01 2001
- Eurocode 3 - 2005
- NZS 3404 - 1997
- SABS 0162 - 1984
- SABS 0162 - 1993
- SANS 10162 - 2005
- SANS 10162-1:2011



For more information contact [info@prokon.com](mailto:info@prokon.com)