



Sommer Informatik GmbH



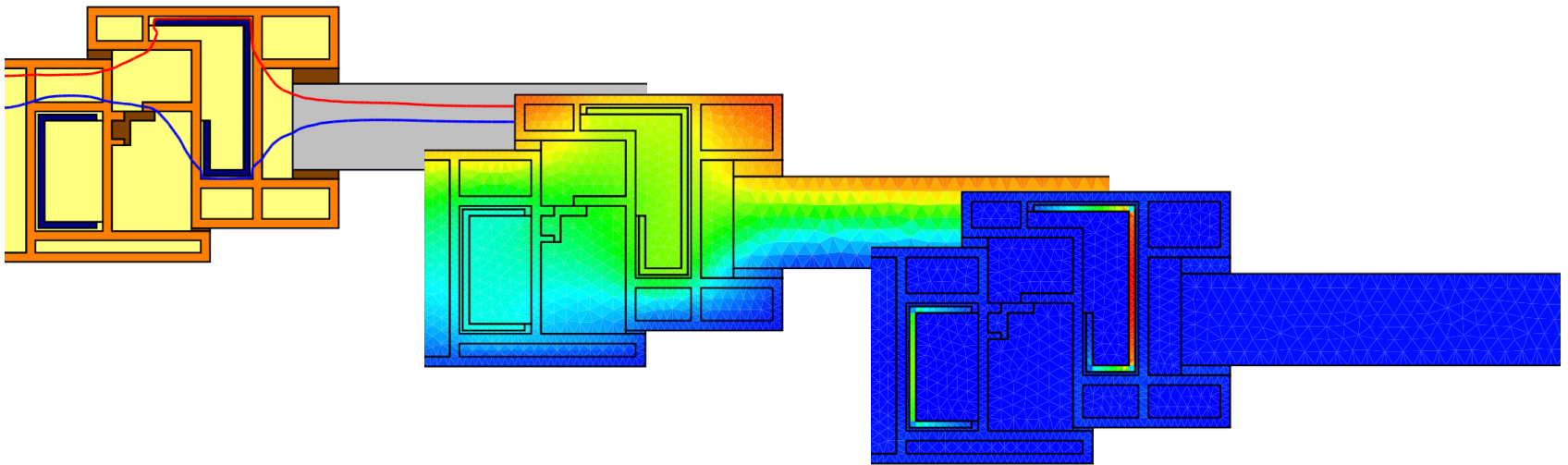


The company

Sommer Informatik GmbH

- domicile at Rosenheim
- foundation 20 years ago by the director Robert Sommer
- market leader at the isotherm- and frame-U- value calculation section
- close collaboration with research, lore and industry
- business area:
 - property management
 - building physics
 - statics

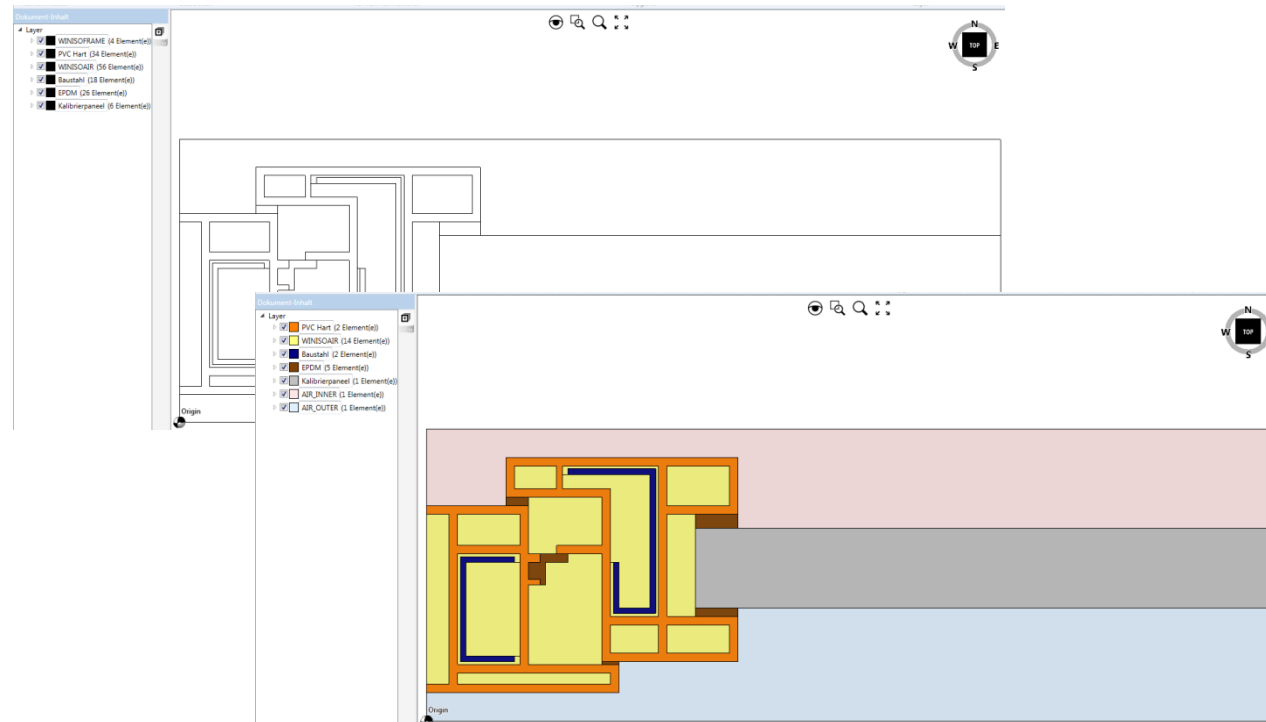
WINISO[®]



The software solution to calculate two-dimensional heat flow and steam diffusion flow, isotherms, Uf-Values and Psi-Values with a DXF-port

CAD-Conversion

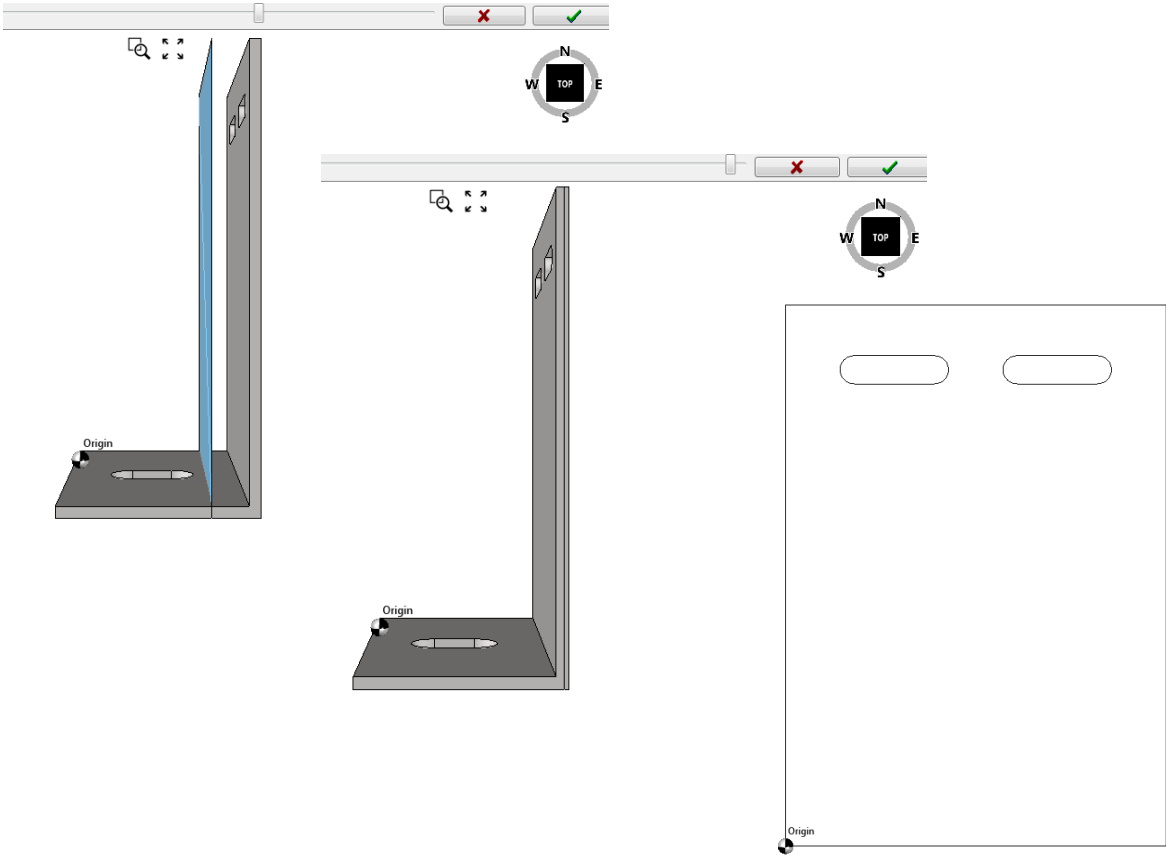
- Fast import and cleanup of CAD drawings
- Polygon recognition with one mouse click
- Automatic material recognition for window constructions





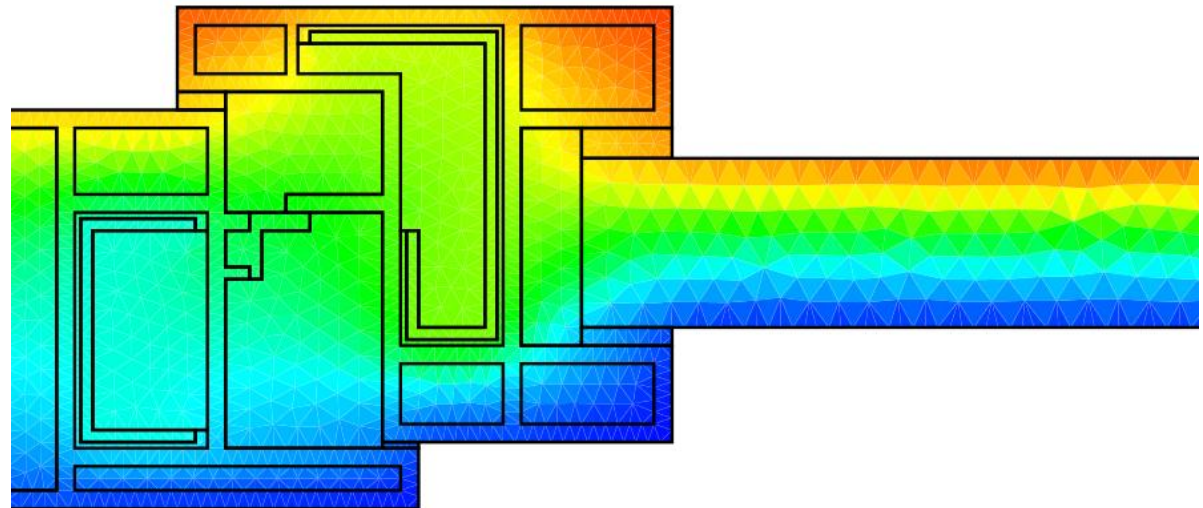
2D cut

3D parts can easily be converted into a 2D cut



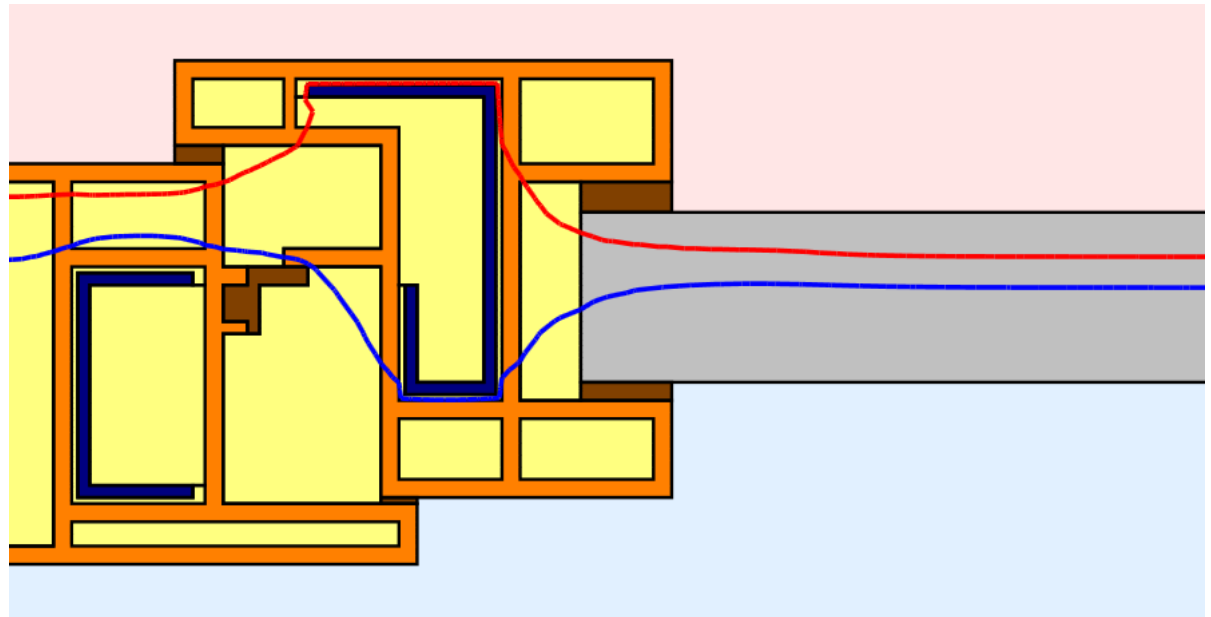
finite element method

- New solver in finite element technology
- Highly automated geometry preparation
- Geometrically accurate and efficient calculation of inclines and radii
- Graphic processing by temperature fields



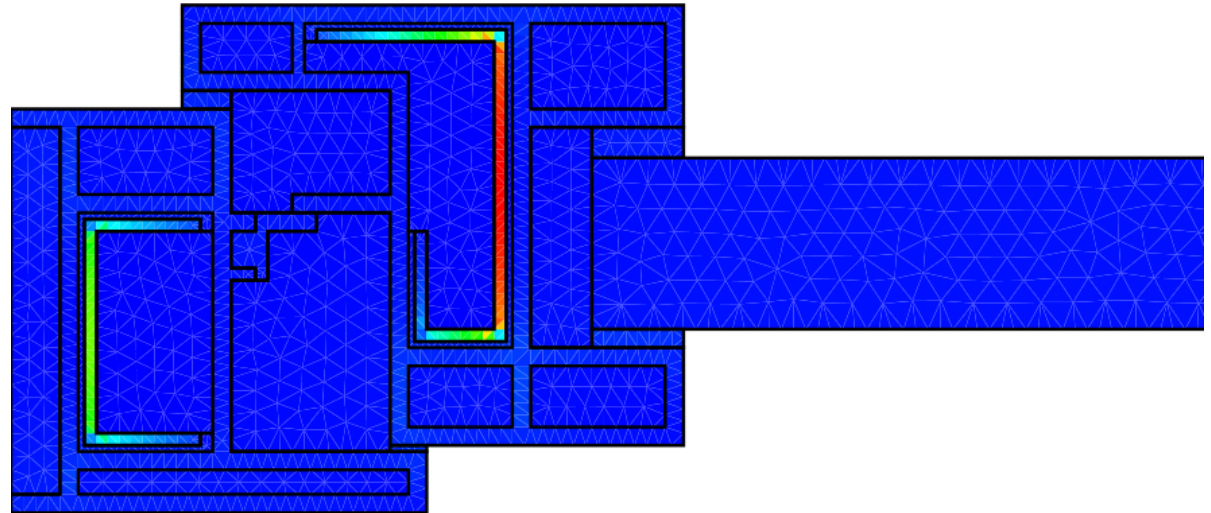
Isotherms

- Isotherms are curves of the same temperature
- A good isothermal curve is a quality feature for a good component



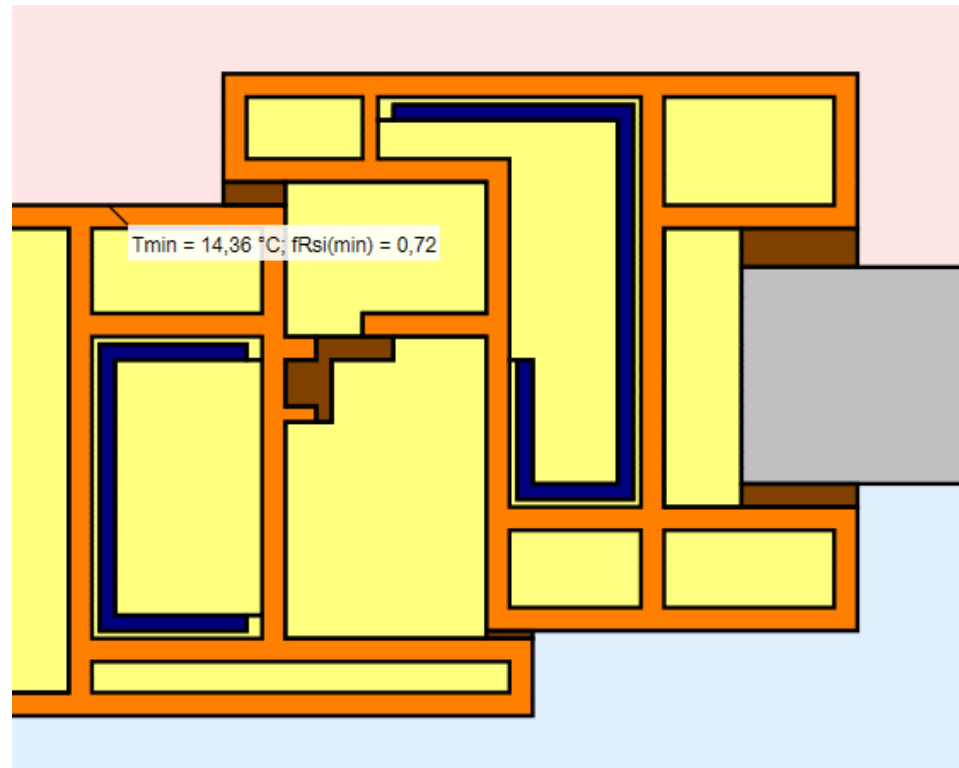
Heat flow fields

Heat flow fields show where the improvement the potential of the component with regard to heat transfer lies in



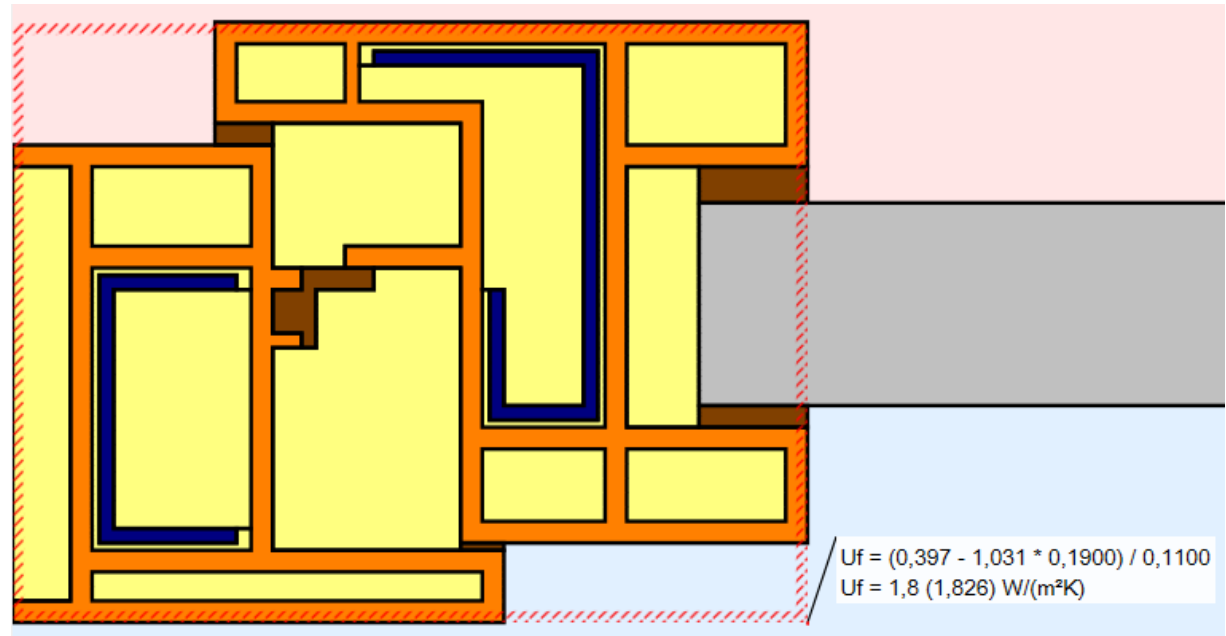
f_{Rsi} value

- The f_{Rsi} -value provides the requirement for the avoidance of mould growth according to DIN 4108-2
- WINISO® automatically detects the lowest internal surface temperature and calculates the value



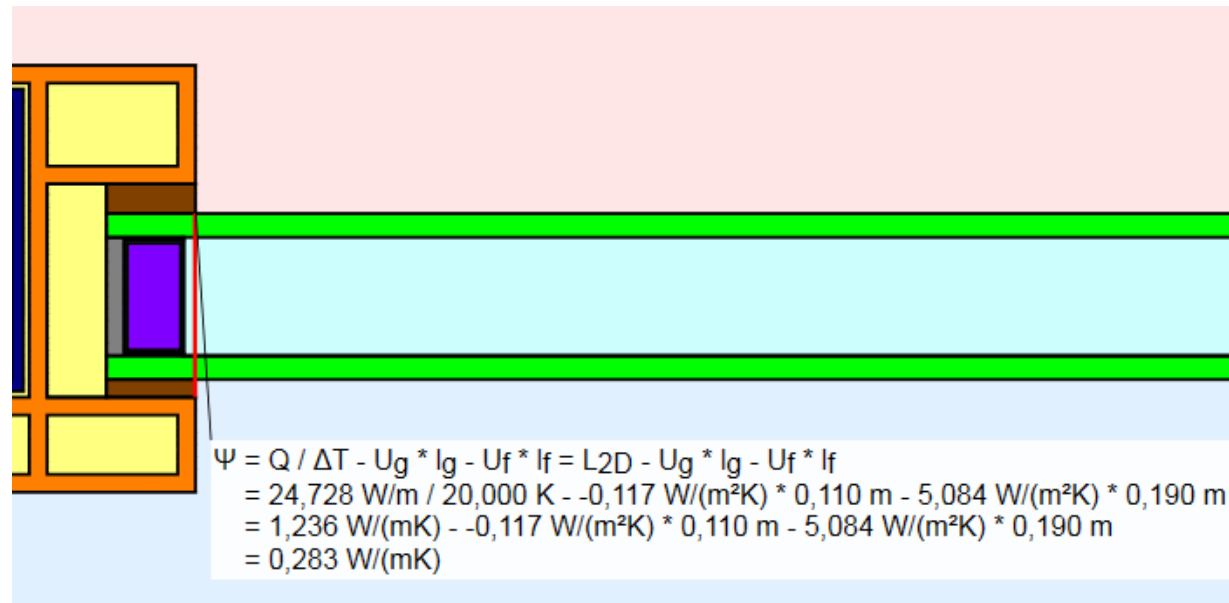
U_f value

- The U_f-value is the U-value of the frame and is calculated according to EN ISO 10077-2
- *Radiosity model - new cavity model according to DIN EN ISO 10077-2/2016 implemented*
- Without software, the U_f value would only be determined by complex measurements



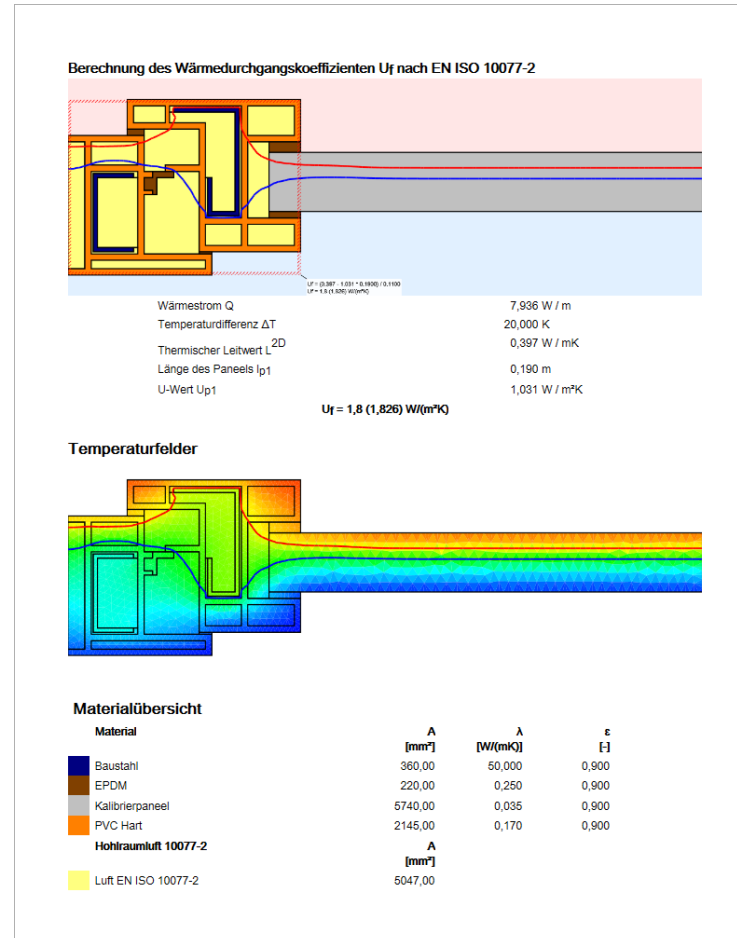
Psi value

- The Psi-value is the length-related heat transfer coefficient and is calculated according to EN ISO 10211 and EN ISO 10077-2 are calculated.
- Otherwise this is only determined by complex measurements, the Psi-value in WINISO® can be calculated fully automatically with one click.



Printout Designer

- Simple modelling of attractive printouts
- All important information in one clear document
- Free design possibilities
- Own pictures and texts can be added as well





Features

- New solver in finite element technology Highly automated geometry preparation of .dxf and .dwg files by DXF converter –
- Thermal evaluation of CAD design in just a few clicks Geometrically accurate and efficient calculation of inclines and radii
- Network refinement can be flexibly and specifically controlled, resulting in high computing speeds
- "Radiosity Model" - New cavity model according to DIN EN ISO 10077-2 / 2016 with radiation calculation implemented



Features

- Automatic material recognition for window constructions in the DXF converter
- Gas filling for inter-pane spaces according to DIN EN 673 freely miscible
- Foil model for coatings - Simple illustration of foils and coatings by lines
- Uf values of window and facade profiles according to EN ISO 10077-2
- Psi values of thermal bridges and insulating glass spacers according to EN ISO 10211 and EN ISO 10077-2



More information

Sommer Informatik GmbH

Sepp-Heindl-Str. 5

D-83026 Rosenheim

Tel.: +49 (0)8031 2488-1

Fax: +49 (0)8031 2488-2

www.sommer-informatik.com