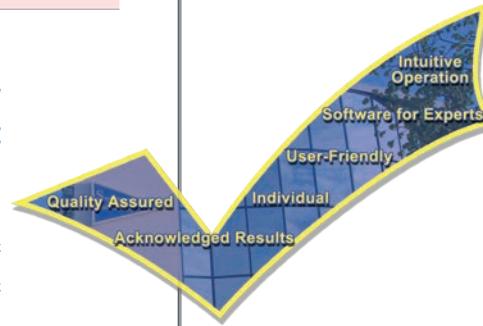
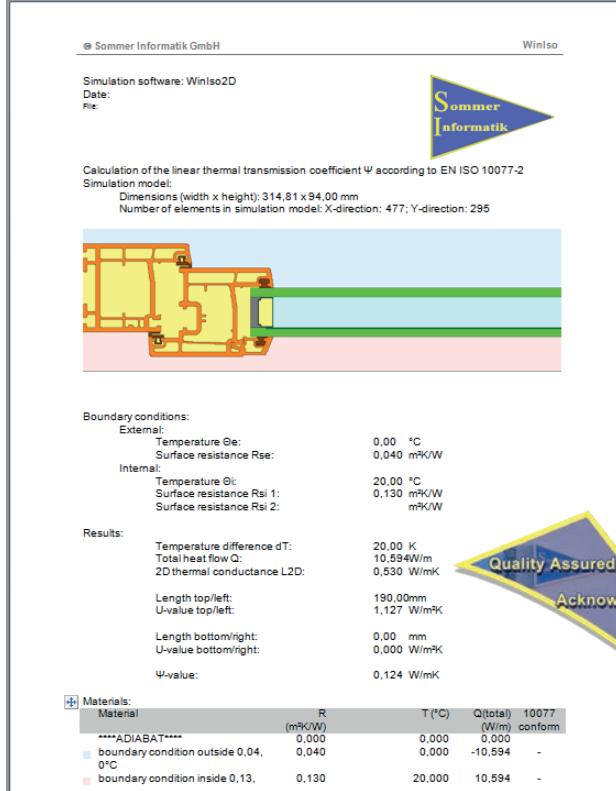


# WinIso2D

## Calculation of two-dimensional temperature fields and heat flows

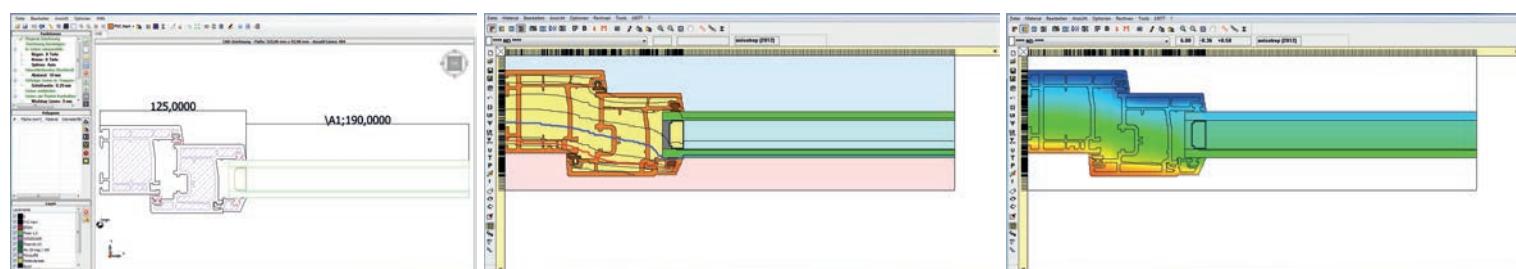


For 20 years, WinIso2D software has proven itself as the software for heat flow simulation. WinIso2D is the standard solution for the calculation of  $U_f$ -value and  $\Psi$ -value of windows, doors and facades. In addition, any constructional details can be assessed thermotechnical. Isotherms, surface temperatures and  $\Psi$ -value in thermal bridges can be calculate efficiently and standard specification compliant with WinIso2D. The program, which has been tested in numerous test institutes and used for certification, is characterized by the easy learnability and the fast solution algorithm.



### Performance features and functions:

- U<sub>f</sub>-values of window and facade profiles according to EN ISO 10077-2 and EN ISO 12631
- $\Psi$ -values of thermal bridges and insulating glass spacers according to EN ISO 10211 and EN IS 10077-2
- U<sub>g</sub>-values of insulating glass units according to EN 673
- U-values of any constructions according to EN ISO 6946
- Calculation of isotherms and surface temperatures according to DIN 4108-2/-3
- Temperatures at any point in the construction
- Easy import of CAD data (DWG and DXF) with DXF converter
- Calculation complexest cross sections with freely definable materials and climatic data
- Extensive material database based on valid European standards
- Planning of constructions to avoid mould and condensation
- Field-proven calculation algorithm, used by most profile manufacturers and ift Rosenheim



# WinIso2D

## Calculation of two-dimensional temperature fields and heat flows



### Calculation basis:

#### **U -Value**

is a measure of the thermal energy quality of components. The higher the value, the more heat passes through a component.

#### **U<sub>g</sub> -Value**

The U-value of a glazing indicates the heat flux through the undisturbed, middle area of the glazing.

#### **U<sub>f</sub> -Value**

the U-value of the frame indicates the heat flux through the frame area.

#### **Edge compound-Ψ-Value**

The linear heat transmission coefficient indicates the heat flux through the edge compound in windows.

#### **U<sub>w</sub> -Value**

The heat transition coefficient of the window indicates the heat flux through the entire window.

#### **f<sub>Rsi</sub> -Factor**

The temperature factor is a criterion for the risk of mould.

### Technical System Requirements:

**Processor:** Intel and AMD

**Memory:** 4 GB RAM

**Disk Space:** 10 GB

**Operating System:** Windows

**Monitor (min. resolution):** 1024 x 768 px

**Database:** FireBird 2.1

### License Models:

#### **Individual License**

Per needed license it has to be bought a single user license. By purchasing additional licenses the amount of users can be increased as needed. Licenses can be shared within one legal entity.

The software has to be installed only on one computer and is not allowed to be used by several persons simultaneously.

#### **Concurrent Network License**

A concurrent network license has to be purchased additional to the individual licenses. The amount of the available licenses is based on the purchased software licenses. You can increase the number of licenses by buying further software licenses. Licenses can be shared within one legal entity. That means several persons are able to operate at the same license. The maximum permissible number of simultaneous use is the number of your purchased licenses.

The program has to be installed on a local server. Simultaneous access for the amount of individual licenses is provided by your concurrent network license.

#### **Terminal Server License (Named User Network License)**

It has to be bought a named user network license. The named user network license contains three named-user-licenses. By purchasing additional named-user-licenses the amount of users can be increased as needed.

Install and register the software on a terminal server. After starting the program, the client will be prompted for the user name. The terminal server license stores this user name together with the IP address or the machine name. Now the first named-user is registered. This client has always access to the full version of the software from now.

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