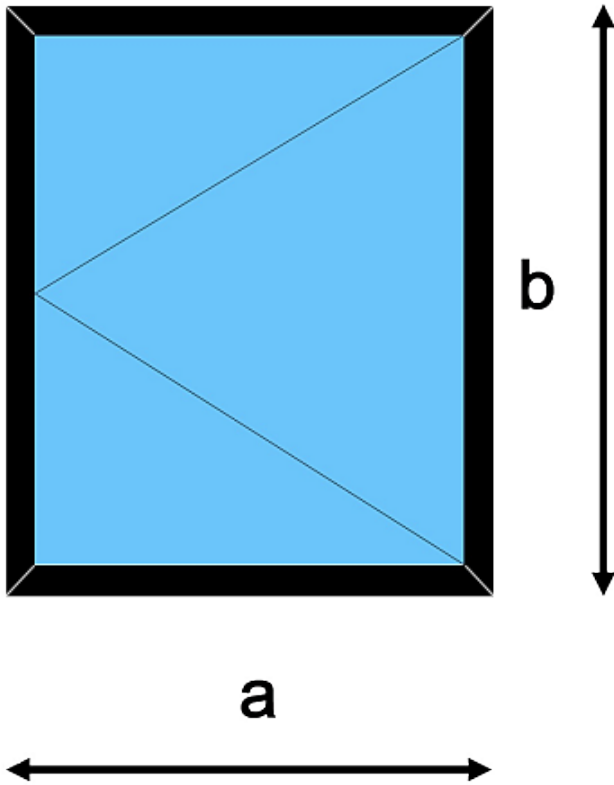


Date: 8/15/2020
Time: 5:39:20 PM

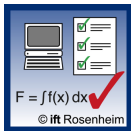
Project: project2020-08-15
Window type: Single sash



The user is responsible for the correct rounding of input values U_f , U_g and Ψ_{si} in accordance with EN ISO 10077-1. This standard requires the rounding of U_f - and Ψ_{si} - values to two decimal places and the rounding of U_g -values to one decimal place.

<u>External dimensions:</u>	
a =	1.230 m
b =	1.480 m
<u>Glass:</u>	
TGU_Planitherm 4S Evolution - Planitherm XN	
<u>Spacer:</u>	
Swisspacer Advance	
<u>Frame:</u>	
PVC	
Frame width:	0.11 m
<u>Details:</u>	
Ag (glazing area):	1.273 m ²
Af (frame area):	0.548 m ²
Aw (window area):	1.820 m ²
Frame fraction:	30 %
Uf (frame):	1.100 W/m ² K
Ug (glazing):	0.5 W/m ² K
Glass thickness, e+i:	4 + 4 mm
Ψ_g :	0.037 W/mK
Length of glass edge:	4.540 m
Ψ_s :	0.00 W/mK
Length of Georgian bars:	0.000 m
<u>Condensation Calculator</u>	
Te (temperature external) in °C:	-3 °C
Ti (temperature internal) in °C:	20 °C
Phi (relative humidity internal) in %:	50 %
Tsi (temperature surface internal):	13.6 °C
Tdp (temperature dew point):	9.2 °C
No condensation risk	

$U_w = 0.77 \text{ W/m}^2\text{K}$
 $0.772 \text{ W/m}^2\text{K}$



The calculations are based on the standard EN ISO 10077-1. The calculation method of the software tool Caluwin Version 0.134.46 has been verified on plausibility by ift-Rosenheim according to ift-guideline WA-05/3. The input data have not been checked by ift-Rosenheim and their corresponding proof has to be regarded as applicable documents. The user of Caluwin is responsible for the correct input data and thus for the obtained results of calculations.