

Method which assesses the individual components – in accordance with EN 13947:2006

1. Unit type

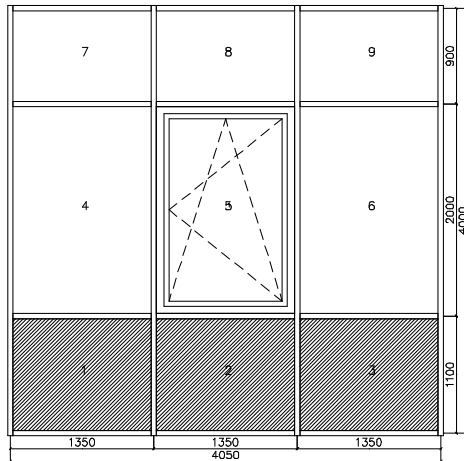
Façade, Modular façade, Modular façade
Width: 4100.0 mm, Height: 4050.0 mm

2. Profile system

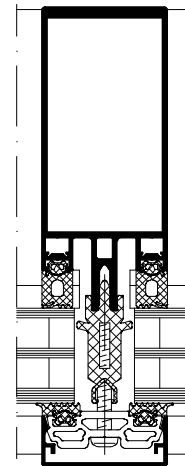
Schüco FW 50+.SI Type 1

Transom 130 mm - 322430

Mullion 150 mm - 322300



Insulation principle



Piece	Field	Description	Size mm	System
3	1,2,3	Panel 150 mm (2-26-120-2) alu/air/insulation/alu, $U_p=0.3 \text{ W/m}^2\text{K}$, Type 3, Purenit oder Promatect	1300.0 x 1050.0	Schüco FW 50+.SI Type 1
2	4,6	Glass 36 mm (4-12-4-12-4), $U_g=0.7 \text{ W/m}^2\text{K}$, PVC-U, Swisspacer V	1300.0 x 1950.0	Schüco FW 50+.SI Type 1
1	5	Window/window door, Rectangular, One-part	1300.0 x 1950.0	Schüco AWS 75.SI
3	7,8,9	Glass 36 mm (4-12-4-12-4), $U_g=0.7 \text{ W/m}^2\text{K}$, PVC-U, Swisspacer V	1300.0 x 850.0	Schüco FW 50+.SI Type 1

Transom 130 mm - 322430 Mullion 150 mm - 322300

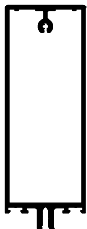


Diagram not drawn to scale

3. Profile	U_m/U_t $W/(m^2K)$	Profile area m^2	Heat loss W/K $U \text{ value} * \text{area}$
Transom 130 mm - 322430	0.91	0.260	0.24
Mullion 150 mm - 322300	0.91	0.225	0.20
Mullion 150 mm - 322300	0.98	0.585	0.57
Transom 130 mm - 322430	0.98	0.520	0.51

4. Glass	U _g W/(m ² K)	Glass area m ²	Heat loss W/K U value * area	Spacer
Glass 36 mm (4-12-4-12-4), 36 mm	0.70	5.070	3.55	PVC-U
Glass 36 mm (4-12-4-12-4), 36 mm	0.70	3.315	2.32	PVC-U
5. Glass edge seal	Psi W/(mK)	Length m	Heat loss W/K Psi value * length	
Glass 36 mm (4-12-4-12-4), U _g =0.7 W/m ² K, PVC-U, Swisspacer V - Mullion 150 mm - 322300	0.035	12.900	0.45	
Glass 36 mm (4-12-4-12-4), U _g =0.7 W/m ² K, PVC-U, Swisspacer V - Transom 130 mm - 322430	0.035	13.000	0.46	
6. Panel	U _p W/(m ² K)	Unit area m ²	Heat loss W/K U value * area	Type
Panel 150 mm (2-26-120-2) alu/air/insulation/alu, 44 mm	0.26	4.095	1.06	Type 3
7. Panel edge seal	Psi W/(mK)	Length m	Heat loss W/K Psi value * length	
Panel 150 mm (2-26-120-2) alu/air/insulation/alu, U _p =0.3 W/m ² K, Type 3, Purenit oder Promatect - Transom 130 mm - 322430	0.020	7.800	0.16	
Panel 150 mm (2-26-120-2) alu/air/insulation/alu, U _p =0.3 W/m ² K, Type 3, Purenit oder Promatect - Mullion 150 mm - 322300	0.020	6.300	0.13	
8. Insert unit	U _w /U _d W/(m ² K)	Unit area m ²	Heat loss W/K U value * area	
Window/window door, Rectangular, One-part	0.95	2.535	2.40	
9. Insert unit edge seal	Psi W/(mK)	Length m	Heat loss W/K Psi value * length	
Outer frame 44/69 - 382150, PVC-U adapter profile - 246232 - Mullion 150 mm - 322300	0.037	3.900	0.14	
Outer frame 44/69 - 382150, PVC-U adapter profile - 246232 - Transom 130 mm - 322430	0.037	2.600	0.10	
10. Total				
Total area of the façade				16.6050 m ²

Heat transfer coefficient U_{cw} (nominal value)**0.74 W/(m²K)**

The nominal value of the heat transfer coefficient U_{cw} for curtain walls is calculated in accordance with EN 13947:2006.

Heat transfer coefficient – in accordance with DIN EN ISO 10077-1

1. Insert unit type (field 5)

Window/window door, Rectangular, One-part
Width:1300 mm, Height:1950 mm

2. Profile system

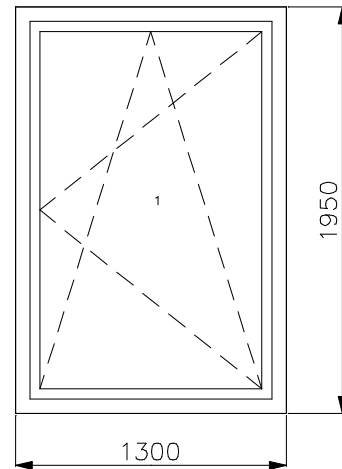
Schüco AWS 75.SI

Frame profile:

Outer frame 44/69 - 382150, PVC-U adapter profile - 246232

Vent profile:

Vent profile 56/41 - 382470



3. Profile combination	U _f W/(m ² K)	Frame area m ²	Heat loss W/K U value * area	Insulating bar
Outer frame 44/69 - 382150, PVC-U adapter profile - 246232, Vent profile 56/41 - 382470	1.3	0.706	0.93	PT

PVC-U adapter profile - 246232

Outer frame 44/69 - 382150

Vent profile 56/41 - 382470

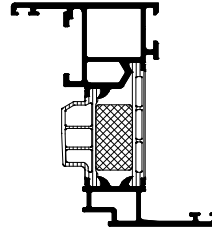
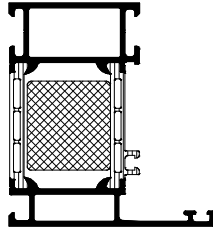
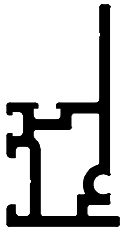


Diagram not drawn to scale

4. Glass	U _g W/(m ² K)	Glass area m ²	Heat loss W/K U value * area	Spacer
(1) Glass 36 mm (4-12-4-12-4), 36 mm	0.70	1.829	1.28	PVC-U

5. Glass edge seal	Psi W/(mK)	Length m	Heat loss W/K Psi value * length
PVC-U, Saint Gobain/Swisspacer V	0.034	5.564	0.19

6. Total

Profile area A _f	0.706 m ²
U value profile U _f	1.3 W/(m ² K)

Glass area + panel area ($A_g + A_p$)	1.829 m ²
U value glass (U_g) / panel (U_p)	0.70 W/(m ² K)
Length of glass edge + panel edge ($L_g + L_p$)	5.564 m
Psi value	0.034 W/(mK)
Length of wall attachment (L)	6.500 m
Area proportion taken up by frame	28 %
Sum of heat loss	2.40 W/K
Total area	2.535 m ²
Heat transfer coefficient U_w (Nominal value)	0.95 W/(m²K)

The nominal value of the heat transfer coefficient U_w for windows is calculated in accordance with EN ISO 10077-1:2006. The measurement value $U_{w,BW}$ of the heat transfer coefficient is equal to the nominal value.

The information calculated by the program and output on this list needs to be checked for correctness!