

# Confirmation of the Minergie suitability of the air-lux sliding window system

Dear Sir or Madam

We hereby confirm that our patented air-lux SW75 sliding window system meets the requirements of Minergie®, Minergie-P, and Minergie-A and can therefore be classified as Minergie-compatible. The Minergie requirements and air-lux performance are listed below:

**Detailed fulfillment of Minergie requirements:**

**1. Air tightness**

<b>Minergie requirement</b>	<b>air-lux performance value</b>	<b>Comment</b>
$n_{50} \leq 1.0 \text{ h}^{-1}$ (air exchange rate at 50 Pa)	$n_{50}$ values of 0.1–0.2 $\text{h}^{-1}$	achieved through patented, circumferential, inflatable seal (class 4 according to EN 12207)

**2. Thermal insulation (Uw value for windows)**

<b>Minergie specification</b>	<b>Performance value air-lux</b>	<b>Comment</b>
$U_w \leq 1.0 \text{ W/m}^2\text{K}$ (Minergie calculation value: 4500x2300 with glass 0.70)	$U_w$ from 0.99 $\text{W/m}^2\text{K}$	Falls below all requirements depending on glass structure, frame, and size
<b>Minergie P requirement</b> $U_w \leq 0.80 \text{ W/m}^2\text{K}$ (Minergie calculation value: 4500x2300 with glass 0.50)	$U_w$ from 0.76 $\text{W/m}^2\text{K}$	Falls below all specifications depending on glass structure, frame, and size
<b>Minergie A requirement</b> $U_w \leq 0.80 \text{ W/m}^2\text{K}$ (Minergie calculation value: 4500x2300 with glass 0.50)	$U_w$ from 0.76 $\text{W/m}^2\text{K}$	Falls short of all requirements depending on glass structure, frame, and size

**3. No thermal bridges**

<b>Minergie requirement</b>	<b>Performance value air-lux</b>	<b>Comment</b>
$\Psi$ value (Psi value) as low as possible $\leq 0.01$ – $0.05 \text{ W/mK}$		Systematic thermal separation at frame, threshold, and connections Minimization of thermal bridges in accordance with standards SIA 380/1 and Minergie-P detailed catalog

**4. Glass content**

<b>Minergie specification</b>	<b>Performance value air-lux</b>	<b>Comment</b>
Glass content $\geq 75\%$	up to 98.5	Can be installed flush with ceiling, floor, and wall

**5. Sustainable material (ECO additive)**

- Air-lux low-carbon aluminum profiles
- Air-lux Ultra Low Carbon Aluminum Profiles

We would be happy to provide you with test reports, U-value calculations, or project examples from certified Minergie buildings.

Please do not hesitate to contact us if you have any questions.

Kind regards  
air-lux Technik AG