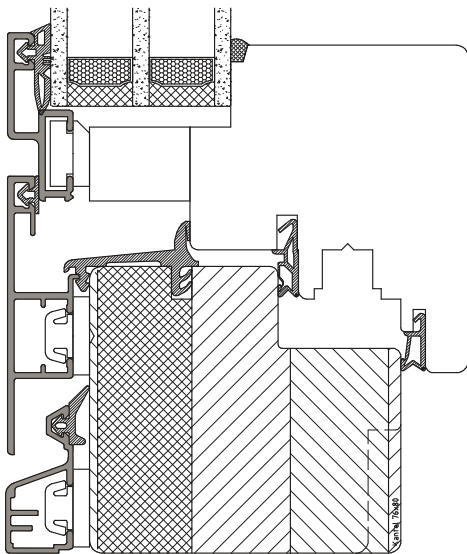
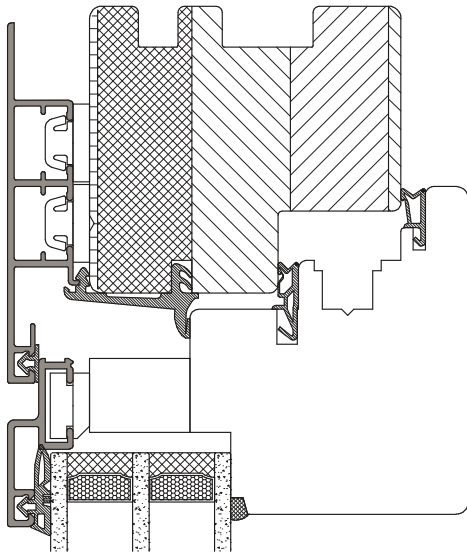




Aluminium clad timber windows, with high thermal insulation
 Mortise/tenon joint
 Installation depth 96 mm
 Flush-mounted
 Inner profile: straight edge, profiled, smart



Energy savings

| Energy savings when installing new windows | | Explanation | |
|--|---------------------------|---|--------|
| U _w -value (old) | 3.50 W/(m ² K) | Heating degree days | 4,050 |
| U _w -value (new) | 0.72 W/(m ² K) | Conversion factor from kilogrammes in litres of heating oil | 1.19 |
| Window surface area | 30 m ² | Conversion heating value Wh/kg | 11,800 |
| Annual savings on heating oil | 1,090 L | Heating efficiency | 0.75 |
| Annual carbon dioxide reduction | 2,943 kg | | |

Security features

- Basic
- Basic plus
- RH 2

Sound insulation

- Window currently not tested

Glass thickness

- from 44 mm to 55 mm

Colour of fittings

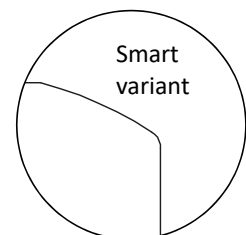
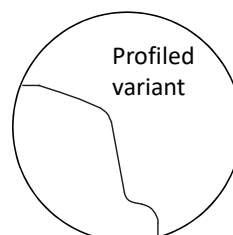
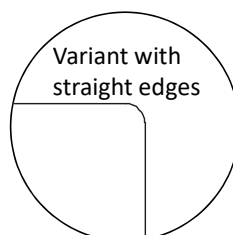
- White
- F9
- Brown, only with caps

Colours

- Inside: all colours of the IDEAL timber range (timber windows)
- Outside: all colours of the IDEAL aluminium clad timber colour range

Available glazing strips

- Standard: straight edge
- Optional: profiled or smart



Seals

- Centre sealing system
- 3 sealing levels, optionally 4 (seal inside the window frame aluminium facing)
- Available colours: black, graphite grey, brown, beige, white

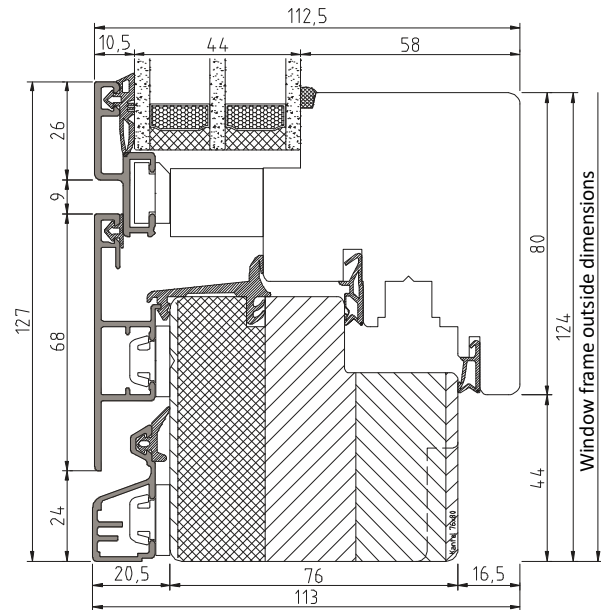
System values

- Air permeability: Class 3 (according to EN 12207)
- Water tightness Class 4A (according to EN 12208)
- Resistance to wind load: Class C3/B3 (according to DIN EN 12210)

Please note:

The classifications given here are minimum requirements.

Please contact us if higher requirements are necessary.



Fittings

Standard:

- Winkhaus ActivPilot (3-dimensional adjustment)
- Integral fail-safe device
- Window casement lift
- Coated hinges (white, brown, F9)
- 2 security strike plates
- Max. weight of casement 130 kg

Optional:

- IDEAL SELECT (concealed fittings)
- "Tilt first" (tilt then turn fitting)
- High Control (magnetic contact for electronic lock monitoring)
- PAD / PADM (parallel action fitting)

Thermal insulation

| Thermal conductivity | 0.11 W/(m ² K) | 0.13 W/(m ² K) | 0.16 W/(m ² K) | 0.18 W/(m ² K) | Thermal conductivity | 0.11 W/(m ² K) | 0.13 W/(m ² K) | 0.16 W/(m ² K) | 0.18 W/(m ² K) |
|------------------------------|---|--------------------------------|--------------------------------|--------------------------------|---|--|---------------------------|---------------------------|---------------------------|
| U _f -value | 0.92 W/(m ² K) | 0.98 W/(m ² K) | 1.1 W/(m ² K) | 1.1 W/(m ² K) | U _f -value | 0.92 W/(m ² K) | 0.98 W/(m ² K) | 1.1 W/(m ² K) | 1.1 W/(m ² K) |
| U _g -value | U _w -values if using aluminium spacers | | | | U _g -value | U _w -values if using KSH/KSD spacers | | | |
| 1.1 W/(m ² K) *** | Not available for this window system | | | | 1.1 W/(m ² K) *** | Not available for this window system | | | |
| 1.0 W/(m ² K) *** | | | | | 1.0 W/(m ² K) *** | | | | |
| 0.9 W/(m ² K) *** | 1.1 W/(m ² K) | 1.1 W/(m ² K) | 1.1 W/(m ² K) | 1.2 W/(m ² K) | 0.9 W/(m ² K) *** | 1.0 W/(m ² K) | 1.0 W/(m ² K) | 1.1 W/(m ² K) | 1.1 W/(m ² K) |
| 0.8 W/(m ² K) *** | 1.0 W/(m ² K) | 1.0 W/(m ² K) | 1.1 W/(m ² K) | 1.1 W/(m ² K) | 0.8 W/(m ² K) *** | 0.94 W/(m ² K) | 0.96 W/(m ² K) | 0.99 W/(m ² K) | 1.0 W/(m ² K) |
| 0.7 W/(m ² K) *** | 0.96 W/(m ² K) | 0.98 W/(m ² K) | 1.0 W/(m ² K) | 1.0 W/(m ² K) | 0.7 W/(m ² K) *** | 0.87 W/(m ² K) | 0.89 W/(m ² K) | 0.92 W/(m ² K) | 0.94 W/(m ² K) |
| 0.6 W/(m ² K) *** | 0.89 W/(m ² K) | 0.91 W/(m ² K) | 0.94 W/(m ² K) | 0.96 W/(m ² K) | 0.6 W/(m ² K) *** | 0.81 W/(m ² K) | 0.83 W/(m ² K) | 0.86 W/(m ² K) | 0.87 W/(m ² K) |
| 0.5 W/(m ² K) *** | 0.82 W/(m ² K) | 0.85 W/(m ² K) | 0.87 W/(m ² K) | 0.89 W/(m ² K) | 0.5 W/(m ² K) *** | 0.74 W/(m ² K) | 0.76 W/(m ² K) | 0.79 W/(m ² K) | 0.81 W/(m ² K) |
| Thermal conductivity | 0.11 W/(m²K) | 0.13 W/(m²K) | 0.16 W/(m²K) | 0.18 W/(m²K) | Reference dimensions 1,230 x 1,480 mm | | | | |
| U _f -value | 0.92 W/(m ² K) | 0.98 W/(m ² K) | 1.1 W/(m ² K) | 1.1 W/(m ² K) | U _w -value calculated according to EN ISO 10077-1:2006 + AC:2009 thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 1: General | | | | |
| U _g -value | U _w -values if using Swisspacer V | | | | *** | Calculated according to EN 673 | | | |
| 1.1 W/(m ² K) *** | Not available for this window system | | | | 0.11 W/(m ² K) | Spruce | | | |
| 1.0 W/(m ² K) *** | | | | | 0.13 W/(m ² K) | Pine, European larch, Eucalyptus RED Grandis, European alder (black alder) | | | |
| 0.9 W/(m ² K) *** | 0.98 W/(m ² K) | 1.0 W/(m ² K) | 1.0 W/(m ² K) | 1.1 W/(m ² K) | 0.16 W/(m ² K) | American cherry tree | | | |
| 0.8 W/(m ² K) *** | 0.91 W/(m ² K) | 0.94 W/(m ² K) | 0.97 W/(m ² K) | 0.98 W/(m ² K) | 0.18 W/(m ² K) | European oak, steamed beech, European beech, European birch European maple; Sycamore maple, American walnut | | | |
| 0.7 W/(m ² K) *** | 0.85 W/(m ² K) | 0.87 W/(m ² K) | 0.90 W/(m ² K) | 0.92 W/(m ² K) | | | | | |
| 0.6 W/(m ² K) *** | 0.78 W/(m ² K) | 0.81 W/(m ² K) | 0.83 W/(m ² K) | 0.85 W/(m ² K) | | | | | |
| 0.5 W/(m ² K) *** | 0.72 W/(m ² K) | 0.74 W/(m ² K) | 0.77 W/(m ² K) | 0.79 W/(m ² K) | | | | | |