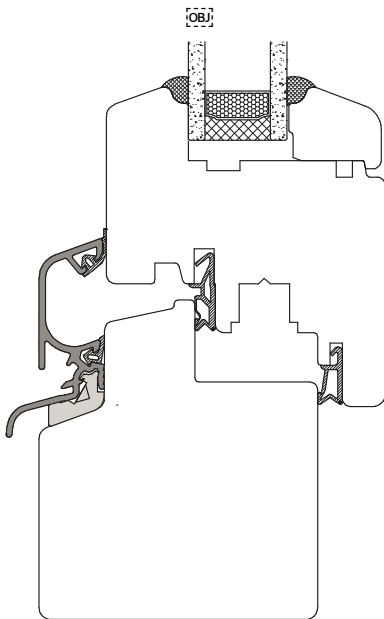
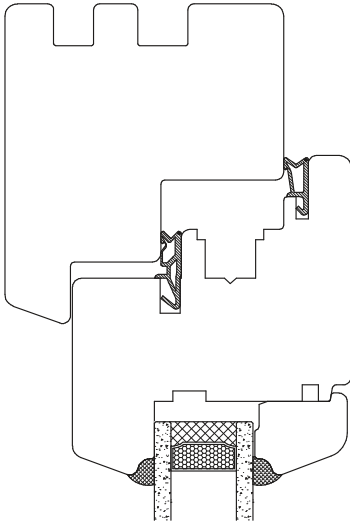




Timber windows
Mortise/tenon joint
Installation depth 68 mm
Recessed
* with insulated glazing 1.1



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)	1.00 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	1,000 L	Heating efficiency	0.75
Annual carbon dioxide reduction	2,700 kg		

Security features

- Basic
- Basic plus
- RH 2
- RC 2

Sound insulation

- Tested up to R_w(C; Ctr) = 44 (-1, -4) dB

Glass thickness

From 24 mm to 32 mm (from 28 mm with rebated glazing strips)
(Glass thickness from 29 mm to 30 mm,
not available with rustic glass retaining strip)



Colour of fittings

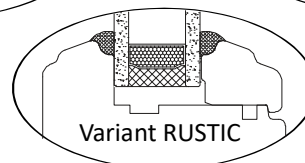
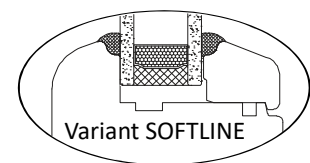
- White
- F9
- Brown, only with caps

Colours

- All colours of the IDEAL timber range (timber windows)

Available glazing strips

- Standard: CLASSIC
- Optional: SOFTLINE or RUSTIC



Seals

- Centre sealing system
- 2 sealing levels
- Available colours: black, graphite grey, brown, beige, white

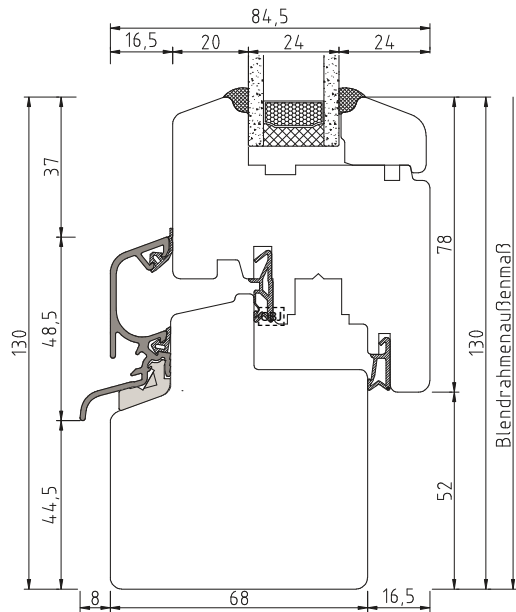
System values

- 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 tapes (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)
- Sash cover profile (only available for CLASSIC profiles)
- PAD / PADM (parallel-locking 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	1.2 W/(m ² K)	1.4 W/(m ² K)	1.6 W/(m ² K)	1.7 W/(m ² K)	U _f -value	1.2 W/(m ² K)	1.4 W/(m ² K)	1.6 W/(m ² K)	1.7 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) ***	1.3 W/(m ² K)	1.4 W/(m ² K)	1.4 W/(m ² K)	1.5 W/(m ² K)	1.1 W/(m ² K) ***	1.3 W/(m ² K)	1.3 W/(m ² K)	1.4 W/(m ² K)	1.4 W/(m ² K)
1.0 W/(m ² K) ***	1.3 W/(m ² K)	1.3 W/(m ² K)	1.4 W/(m ² K)	1.4 W/(m ² K)	1.0 W/(m ² K) ***	1.2 W/(m ² K)	1.2 W/(m ² K)	1.3 W/(m ² K)	1.3 W/(m ² K)
0.9 W/(m ² K) ***	1.2 W/(m ² K)	1.2 W/(m ² K)	1.3 W/(m ² K)	1.3 W/(m ² K)	0.9 W/(m ² K) ***	1.1 W/(m ² K)	1.2 W/(m ² K)	1.2 W/(m ² K)	1.2 W/(m ² K)
0.8 W/(m ² K) ***	1.1 W/(m ² K)	1.2 W/(m ² K)	1.2 W/(m ² K)	1.3 W/(m ² K)	0.8 W/(m ² K) ***	1.0 W/(m ² K)	1.1 W/(m ² K)	1.1 W/(m ² K)	1.2 W/(m ² K)
0.7 W/(m ² K) ***	Not available for this window system				0.7 W/(m ² K) ***	Not available for this window system			
0.6 W/(m ² K) ***									
0.5 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	1.2 W/(m ² K)	1.4 W/(m ² K)	1.6 W/(m ² K)	1.7 W/(m ² K)	U _w -value calculated according to EN ISO 10077-1:2006 + AC:2009				
U _g -value	U _w -values if using Swisspacer V				Thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 1: General				
1.1 W/(m ² K) ***	1.2 W/(m ² K)	1.3 W/(m ² K)	1.3 W/(m ² K)	1.4 W/(m ² K)	***	Calculated according to EN 673			
1.0 W/(m ² K) ***	1.2 W/(m ² K)	1.2 W/(m ² K)	1.3 W/(m ² K)	1.3 W/(m ² K)	0.11 W/(m ² K)	Spruce			
0.9 W/(m ² K) ***	1.1 W/(m ² K)	1.1 W/(m ² K)	1.2 W/(m ² K)	1.2 W/(m ² K)	0.13 W/(m ² K)	Pine, European larch, Meranti Light Red Southeast Asia, Eucalyptus RED Grandis, European alder (black alder)			
0.8 W/(m ² K) ***	1.0 W/(m ² K)	1.1 W/(m ² K)	1.1 W/(m ² K)	1.2 W/(m ² K)	0.16 W/(m ² K)	American cherry tree			
0.7 W/(m ² K) ***	Not available for this window system				0.18 W/(m ² K)	European oak, steamed beech, European beech, European birch European maple; Sycamore maple, American walnut			
0.6 W/(m ² K) ***									
0.5 W/(m ² K) ***									