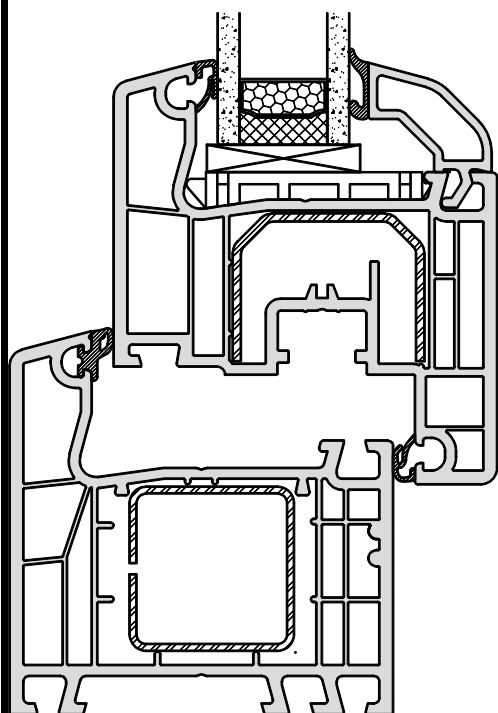




5 chamber system
Installation depth 70 mm
Casement depth 70 mm
Recessed



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)	0.90 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	1,019 L	Heating efficiency	0.75
Annual carbon dioxide reduction	2,753 kg		

Security features

- BASIC: Winkhaus activPilot with 2 security strike plates
- Optional: BASIC plus, IDEAL secure (RH2), RC2

Sound insulation

- Window R_{wP} up to 45 dB

Glass thickness

- up to 41 mm

Colour of fittings

- White and F9, powder coated (without caps)
- Brown and F4 over caps

Colours

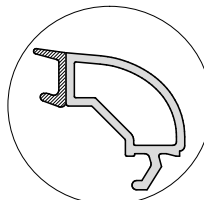
- White
- Decor based on current price list according to plastic colour range

Available glazing strips:

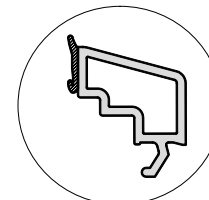
- Standard:
softline



- Optional:
roundline



classicline



Seals

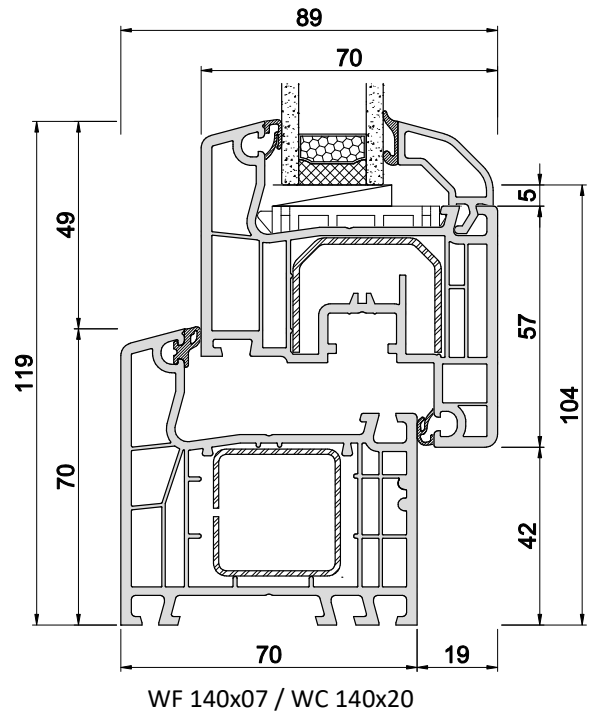
- Rebate gasket system
- 2 sealing levels
- Available colours:
 - papyrus white,
 - black with decor

System values

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

Please note:

The classifications given here are minimum requirements.
Please contact us if higher requirements are necessary.



Fittings

BASIC:

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

Optional:

- Security levels: BASIC plus, IDEAL secure (RH2), RC2
- IDEAL SELECT (concealed corner and stay bearings)
- "Tilt first" (tilt then turn)
- High Control (magnetic contact for electronic lock monitoring)

Thermal insulation

- Reference dimensions 1,230 x 1,480 mm
- $U_i = 1.3 \text{ W}/(\text{m}^2\text{K})$
- Minimum requirements acc. to the German Energy Saving Ordinance (EnEV) 2014 $U_w = 1.3 \text{ W}/(\text{m}^2\text{K})$

U_g glass ($\text{W}/\text{m}^2\text{K}$) EN 673	U_w window ($\text{W}/\text{m}^2\text{K}$)		
	Insulated glazing edge compound		
	Aluminium	KSH/KSD	Swisspacer Ultimate
Double glazing	$\Psi_i = 0.066 \text{ (W/mK)}$	$\Psi_i = 0.041 \text{ (W/mK)}$	$\Psi_i = 0.032 \text{ (W/mK)}$
1.1	1.33	1.26	1.24
1.0	1.26	1.20	1.18
Triple glazing	$\Psi_i = 0.064 \text{ (W/mK)}$	$\Psi_i = 0.039 \text{ (W/mK)}$	$\Psi_i = 0.030 \text{ (W/mK)}$
0.8	1.12	1.06	1.03
0.7	1.05	0.99	0.97
0.6	0.98	0.92	0.90

- U_w -values $< 1.0 \text{ W}/(\text{m}^2\text{K})$ are shown with two decimal places in accordance with EN ISO 10077
- U_w -values $> 1.0 \text{ W}/(\text{m}^2\text{K})$ are shown with one decimal place in accordance with EN ISO 10077 and here – for information only – with two decimal places
- The Ψ_i values specified are taken from the data sheets of the "Warm Edge" working group

Sound insulation

Reference dimensions 1,230 x 1,480 mm
(components with test certificate)

$R_w \Delta R_{wp}$ = Test value window	R_{wR} = Calculated value window	R_{wp} = Test value glass	Test certificate No.
42 dB	40 dB	41 dB	16129751/Z01
42 dB	40 dB	42 dB	16129751/Z02
44 dB	42 dB	45 dB	16129751/Z03
45 dB	43 dB	48 dB	16129751/Z05

In Germany the following applies acc. to DIN 4109:1989-11 (German standard for sound insulation in buildings; requirements and testing): R_w equals R_{wp} ; $R_{wR} = R_{wp} - 2\text{dB}$