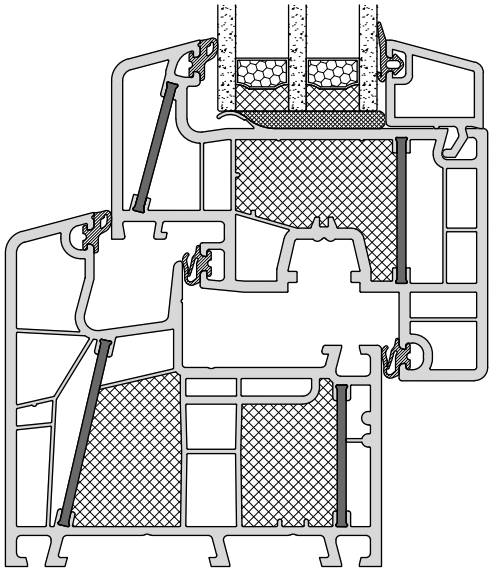
ENERGETO 8000ED fv2k

6 chamber system
Installation depth 85 mm
Adhesive technology/PHDS technology
Recessed
Centre sealing system



Energy savings

Energy savings when installing new windows	
U_w-value (old)	3.50 W/(m²K)
U_w-value (new)	0.68 W/(m²K)
Window surface area	30 m²
Annual savings on heating oil	1,109 L
Annual carbon dioxide reduction	2,996 kg

Explanation	
Heating degree days	4,050
Conversion factor from kilogrammes in litres of heating oil	1.19
Conversion heating value Wh/kg	11,800
Heating efficiency	0.75

Security features

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

Sound insulation

Window R_{wP} up to 41 dB

Glass thickness

Up to 48 mm

Colour of fittings

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

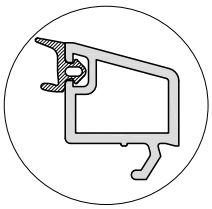
Colours

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

kühl-gemäßigtes Klima
phB
ZERTIFIZIERTE KOMPONENTE
Passivhaus Institut

Available glazing strips:

- Standard: classicline



- Optional: roundline

softline

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Seals

- Centre sealing system
- 3 sealing levels
- Available colours: papyrus white, or black with decor

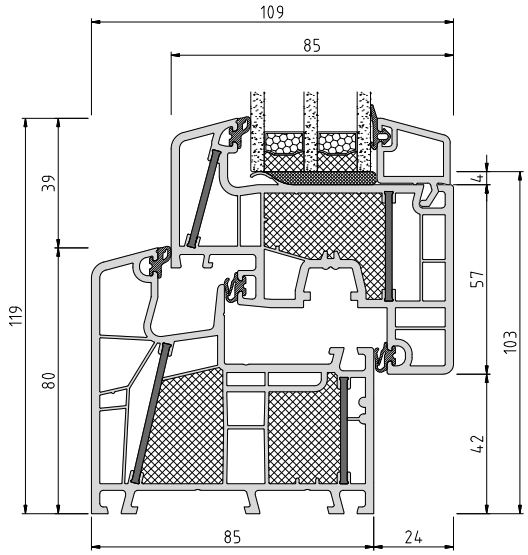
System values

- 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.



WF 180x05 / WS 080x86

Fittings

BASIC:

- Winkhaus activPilot (3-dimensional adjustment)
- Integral fail-safe device
- Window casement lift
- Coated tapes (white or F9)
- 2 security strike plates
- Max. weight of casement 130 kg

Optional:

- activPilot Comfort PAD (parallel-locking fitting)
- Safety levels: BASIS 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_f = 0.79 W/(m²K)
- Minimum requirements acc. to the German Energy Saving Ordinance (EnEV) 2014 U_W = 1.3 W/(m²K)
- SPH = suitable for passive houses
- CPC = certified passive house component (Passive House Institute Dr. Feist)
  - $U_g \leq 0.7$ W/m²K
  - Swisspacer Ultimate edge compound
  - WCP 184247G_2K (or equivalent)

U_g-glass (W/m²K) EN 673	Uw-window (W/m²K)		
	Insulated glazing edge compound		
	Aluminium	KSH/KSD	Swisspacer Ultimate
Double glazing	Psi = 0.066 (W/m²K)	Psi = 0.041 (W/m²K)	Psi = 0.032 (W/m²K)
1.1	1.16	1.10	1.08
1.0	1.09	1.03	1.01
Triple glazing	Psi = 0.064 (W/m²K)	Psi = 0.039 (W/m²K)	Psi = 0.030 (W/m²K)
0.8	0.95	0.90	0.87
0.7	0.89	0.82	0.80 (CPC)
0.6	0.82	0.76 (SPH)	0.73 (CPC)
0.5	0.75 (SPH)	0.69 (SPH)	0.67 (CPC)

- U_w-values < 1.0 W/(m²K) are shown with two decimal places in accordance with EN ISO 10077
- U_w-values > 1.0 W/(m²K) are shown with one decimal place in accordance with EN ISO 10077 and here – for information only – with two decimal places
- The specified PSI values are taken from the data sheets of the working group "Warm Edge"

Sound insulation

Reference dimensions 1,230 x 1,480 mm

(components with test certificate)

R_w □ R_{wP} = Test value window	R_{wR} = Calculated value window	R_{wP} = Test value glass	Test certificate No.
33 dB	31 dB	29 dB	175 42480/2
38 dB	36 dB	35 dB	175 42480/2
41 dB	39 dB	42 dB	175 42480/2
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} - 2dB			