



The Quality Profile



SOFTLINE MD82

Type	Casement
System Depth	82 mm
U-Value	$U_i=1.0 \text{ W/m}^2\cdot\text{K}$

SOFTLINE MD82

VEKA SOFTLINE MD82 casement system with 82mm system depth provides ultimate insulation performance.

An innovative 3-level center seal gasket design keeps out noise, cold, damp and strong wind. The MD82 features a specially designed, U_i optimized 7-chamber geometry for excellent thermal insulation. Custom-made steel reinforcements provide structural strength for large windows and combination windows, often used in high-rise buildings, but still enables a U_i of $1.0 \text{ W/m}^2\cdot\text{K}$ including steel reinforcements. The glazing depth of 25mm adds extra insulation between glass and frames. In combination with high-performing glass this prevents water condensation on the inside of the window. The MD82 is the most advanced window system by VEKA. VEKA strongly believes, that Asia, especially colder regions in China, Korea and Japan, should have easy access to this high-performing window system. VEKA proudly extrudes this product line in China and is not just importing the profiles. MD82 is the first choice for projects which require an U_w of $0.8\text{-}1.3 \text{ W/m}^2\cdot\text{K}$ and better including requirements for Passive Houses. VEKA's MD82 window system is Passive House certified by the Passive House Institute of leading expert Dr. Feist and is certified to be used in "phB cold regions" including North China.

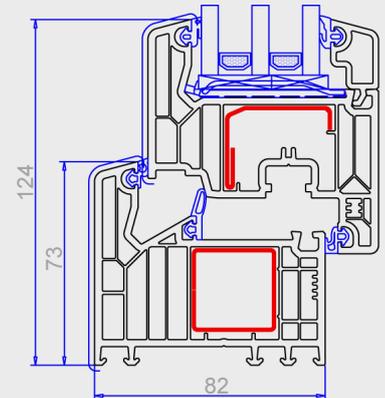
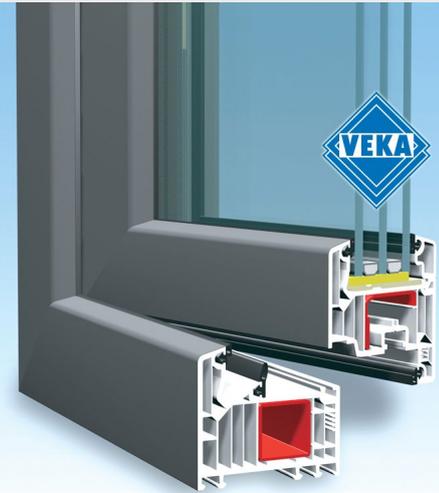
- ◆ System U_i $1.0 \text{ W/m}^2\cdot\text{K}$ (including steel reinforcements)
- ◆ System depth 82mm – 7 chambers
- ◆ Glazing width range from 22mm – 52mm
- ◆ Glazing depth 25mm
- ◆ High-performance 3-level center seal gasket system
- ◆ Available in profile wall thickness "Class A"
- ◆ Specially designed steel reinforcements for high wind-load
- ◆ PHI – Passive-House certified

U-Values by Glass configuration

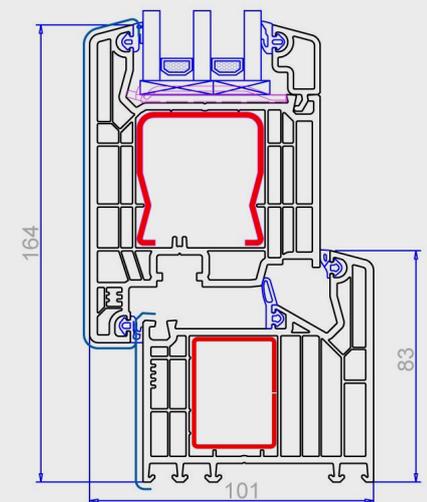
U-Value Std window	Glass Thickness	Glass Configuration	Glass U-Value
0.8 $\text{W/m}^2\cdot\text{K}$	32 mm	5ssLow-E+V+5+16A+6(warm edge)	0.53 $\text{W/m}^2\cdot\text{K}$
1.0 $\text{W/m}^2\cdot\text{K}$	39 mm	5ssLow-E+12Ar+5ssLow-E+12Ar+5 (warm edge)	0.83 $\text{W/m}^2\cdot\text{K}$
1.2 $\text{W/m}^2\cdot\text{K}$	39 mm	5ssLow-E+12A+5ssLow-E+12A+5 (warm edge)	1.05 $\text{W/m}^2\cdot\text{K}$
1.5 $\text{W/m}^2\cdot\text{K}$	36 mm	5ssLow-E+12A+5+9A+5	1.39 $\text{W/m}^2\cdot\text{K}$

Color options

Standard White		White
Acryl-Color COEX		dark brown
		dark grey
Laminated		dark oak
		golden oak
		mahogany
		dark grey
Full color profile		brown
		caramel
		dark grey



↑ Window Acryl-Color COEX



↑ Door Acryl-Color COEX

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Wei Hai · Municipal Party School

When Weihai government decided on building the new Party School, they aimed for the highest insulation standards possible. Weihai is situated next to the ocean and is exposed to strong winds, so the air tightness was also an important factor. After comparing a wide range of window materials and brands, the Weihai government selected VEKA SOFTLINE MD82 window system in dark brown Acryl-Color outside – perfectly fitting to the building's exterior design.

Product	SOFTLINE MD82
U_f	1.0 W/m ² ·K
Glass Configuration	6 + 18 warm-edge + 5 Low-E + V + 5
U_w	0.8 W/m ² ·K

