



# B85

## The passive house system

The B85 Passive house system is possibly the most refined system on the market. Attention was paid to limiting the installation depth during the development of this system. With a thickness of 85 mm, it is one of the slimmest systems in the top segment of the market and suitable for high glass weight values.

The intelligent design and use of various high-quality insulation materials guarantee an ultra-low  $\lambda$ -value together with a high degree of airtightness. As a result,  $U_w$  values (in combination with triple glazing) under  $0.8 \text{ W/m}^2 \text{ K}$  are possible!



# B85 PASSIVE HOUSE SYSTEM

## Airtight

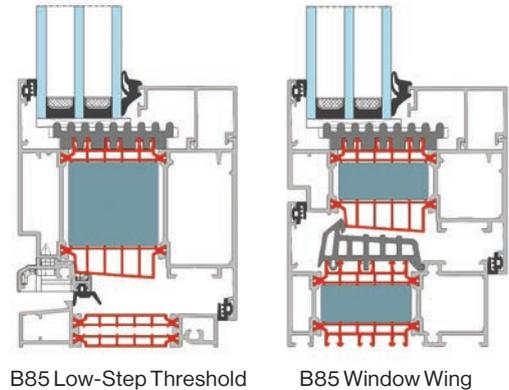
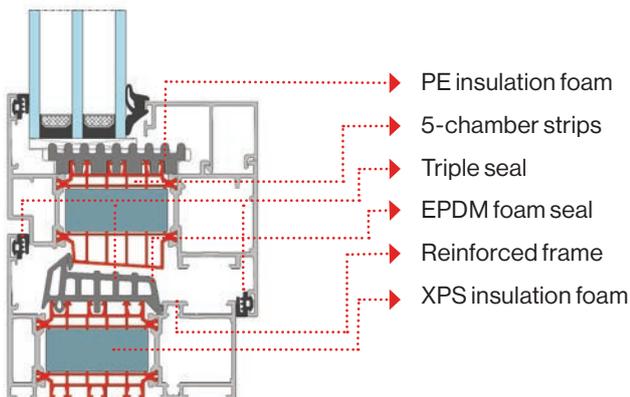
In addition to the classic center seal and the integrated inner impact insulation seal, the system includes an additional impact seal on the outside. This unique combination results in a very high degree of airtightness for the window system, a feature that is becoming increasingly important in passive construction.

## Superior insulation

The high insulation values are obtained by constructing the insulators as multi-chamber profiles. As a result, the depth of the insulators can be limited and a greater stability can be obtained for higher glass weight values. Furthermore, the insulator strips are manufactured using Noryl, which guarantees an ultra-low  $\lambda$ -value.

## B85 Passive Home System

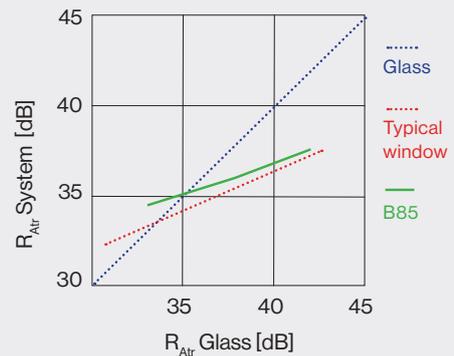
The B85 holds all the aces: good sound insulation, high strength, excellent thermal insulation and airtightness. With this series, Van Beveren offers top quality for every architectural style and insulation standard.



B85 Low-Step Threshold

B85 Window Wing

## SOUND INSULATION



## B85 PROPERTIES

KOMO certificate 1027.0299.05			
Passive home		Burglar resistance	<b>WK 2 / RC 2</b> (NEN 5096 / ENV1627)
		U <sub>f</sub> insulation value	<b>Up to 0,74 W/m²K</b> (NBN EN ISO 10077-2)
Outer-frame glazing	<b>28 mm - 70 mm</b>	U <sub>w</sub> insulation value (1,23 x 1,48 m)*	<b>1,17 W/m²K</b> (Double glazing; U <sub>g</sub> =1,0; $\psi$ = 0,069)*
Wing glazing	<b>36 mm - 78 mm</b>		<b>0,80 W/m²K</b> (Triple glazing; U <sub>g</sub> =0,6; $\psi$ =0,034)*
Outer-frame installation depth	<b>85 mm</b>	Water resistance	<b>E1200 - E2250</b> (NBN EN 12208)
Wing installation depth	<b>93 mm</b>	Airtightness	<b>4</b> (NBN EN 12207)
5-chamber system with Noryl strips		Resistance to wind load	<b>C4 - C5</b> (NBN EN 12210)

\* All other combination/result values are indicative and may not incur liability

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