

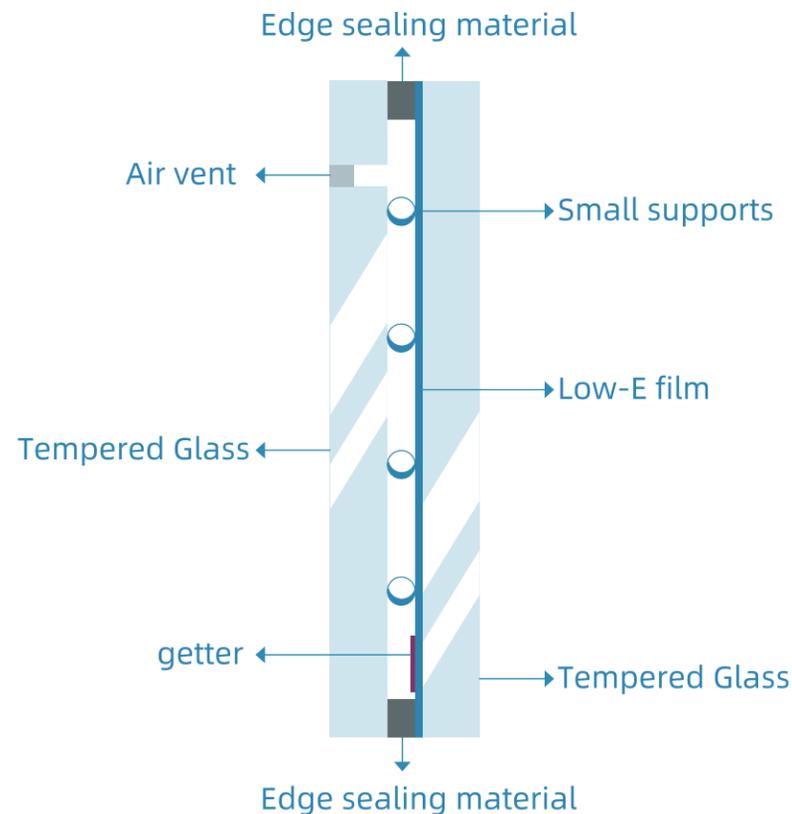
## VC-GLASS

Filmbase VC glass, known as a green building material, not only provides a more livable environment and space for humans but is also extremely environmentally friendly, energy-saving and sustainable. As a cutting-edge green building material, Vc glass is gradually making its mark in the construction industry. Its unique vacuum + chip structure design effectively blocks heat transfer, significantly enhancing the insulation and heat preservation performance of buildings and advanced industrial products. It not only greatly reduces building energy consumption and decreases reliance on air conditioning and heating, but also effectively blocks noise. No condensation occurs when the indoor and outdoor temperature difference is over 70°C, and it maintains a good visual transparency effect even in an external environment of minus 40 degrees Celsius, providing residents with a more peaceful and comfortable environment.

## About VC Glass

Filmbase VC-Glass has the characteristics of excellent thermal insulation, sound insulation, noise reduction, anti-condensation performance, high wind pressure strength, long service life and so on.

At present, Filmbase VC-Glass has excellent performance in improving energy efficiency, improving the comfort of living environment and energy saving, and is the ideal choice for modern building and home improvement.



## Product Advantages



### More secure

The stress at any point on the surface of the product exceeds **90MPa**, The wind pressure resistance strength of Filmbase VC-Glass reaches **+7200Pa**.



### Size worry free

The maximum size of a single product can reach **1.5x2.5** meters.



### Sound insulation

The sound insulation and noise reduction performance of Filmbase VC-Glass is based on the fact that sound does not propagate under vacuum conditions. The weighted sound insulation reaches **39 dB**.



### Thermal insulation

Its heat transfer coefficient (U value) is as low as **0.4 W/m<sup>2</sup>·K**, significantly reduces energy loss and building energy consumption. The thermal insulation effect is more than 1 meter thick brick wall, is **4~6** times of ordinary insulating glass.



### Anti condensation

There is no gas inside the Filmbase VC-Glass, and even if the outdoor temperature reaches minus **40°C** it will not condense. It has passed RoHS certification and can be fully applied to the high-end home appliance market worldwide.



### Various angles

Filmbase VC-Glass is not affected by the change of gas thermal conductivity when placed horizontally.



### Long service life

All-glass material seal, internal plus getter and Low-E film, as long as the manufacturing process and equipment advanced, Filmbase VC-Glass service life is much longer than the organic material sealed hollow glass.



### Be even quality

We have passed the ISO9001:2015 quality system certification and have undergone rigorous system and process audits by Bosch Home Appliances to ensure the reliable quality of every piece of Filmbase VC-Glass. We are also insured by PICC quality assurance insurance.

# VC<sup>™</sup> —Glass Heat insulation Performance

Based on the principle of vacuum bottle, its thermal insulation performance is far better than ordinary insulating glass, can effectively reduce the heat transfer caused by temperature difference.

Can reach **0.27**  
Solar heat gain coefficient(SHGC)

Can reach **0.66**  
Sunshade coefficient(Sc)

 **Save 50%**  
Save 50% on air conditioning costs

 **Block UV 99%**  
Resistance to UV rays reaches 99%

 **Block heat 95%**  
Thermal insulation performance reaches 95%

## VC<sup>™</sup> —Glass Sound Insulation Performance

The sound insulation performance of Filmbase VC-Glass is better than that of insulating glass, especially in the low frequency band, its sound insulation performance is very outstanding. vacuum layer as a sound insulation barrier, although slightly decreased due to the presence of support, but still better than ordinary glass. semi-tempered glass support is reduced and further improves sound insulation.

- The weighted sound insulation reaches 39dB, which is 1.5 times that of ordinary insulating glass, and the effect is outstanding.
- Tailored the best product solution based on the characteristics of different noise spectra.
- Patent mute gain technology further enhances sound insulation effect.

 **Reach 39dB**  
1.5 times that of ordinary insulating glass

Light weight and elegant, showcasing industrial aesthetics.

No condensation occurs when the temperature difference between the inside and outside exceeds 70 °C, away from the problem of condensation.

Restore the original appearance of high-end winter curtain walls and transparent display windows.

## VC<sup>™</sup> —Glass Anti condensation Performance

Because the heat transfer coefficient of Filmbase VC-Glass is much smaller than that of insulating glass, can effectively prevent the environmental heat transfer to the interior of the refrigerator, reduce the start-up times of the compressor, reduce energy consumption. At the same time, does not need to paste electric thermal film on the glass surface, further reduces energy consumption.

### Product parameters

Product	U value W/(m <sup>2</sup> ·K)	Visible Light Transmittance	Volume isolation	Regular size	Biggest size
5TL+0.3V+5T	0.50	75%	39dB	1500x2000mm	2000x3000mm

\*5TL represents 5mm thick Low-e glass; 0.3V represents a 0.3mm thick vacuum layer; 5T represents 5mm thick white glass.