

# Six things to know when choosing the right vacuum insulated glass according to LANDGLASS

In this article, LandGlass provides a series of important aspects to bear in mind when choosing vacuum insulated glass, which provide a series of important features which will reduce the consumption of building materials and energy, reduce carbon emissions, and result in a healthy and sustainable quality of life.

With the steady progress of the national energy conservation and emission reduction strategy of 'Carbon peak and carbon neutrality', and increasing pursuit of natural comfort, quiet and joyful quality of life by conscious people,

vacuum insulated glass that offers ultra thermal insulation, noise reduction, and condensation-free features is gradually becoming known to the public and finds its applications in the fields of commercial and residential buildings as well as high-end refrigeration appliances. As



An abstract geometric artwork featuring overlapping translucent planes and a thick black frame. The composition includes a light blue translucent plane on the left, a white translucent plane in the center, and a light green translucent plane on the right. A thick black frame is superimposed over these planes, creating a sense of depth and structure. Small dark dots are scattered across the white and blue planes. The overall effect is a complex, layered geometric composition.

Vacuum insulated glass consists of two or more glass panes separated with spacers. After the edges are sealed, the air inside is evacuated to create a vacuum space between the two panes. By using the near zero heat transfer and zero sound transmission characteristics of the vacuum







resistance tests. Quality testing includes: air tightness tests and online performance tests.

#### 4. WHICH CERTIFICATION DOES VACUUM INSULATED GLASS NEED TO OBTAIN? WHAT DOES A THIRD-PARTY AUTHORITY CERTIFICATION TELL YOU?

Qualified vacuum insulated glass needs to obtain three types of certification: product performance certification, safety certification, and qualification certification. The performance certification primarily certifies performance regarding thermal insulation, noise reduction, and wind resistance. Safety certificates mainly include: safety glazing product certificate and certification for testing items required by

the RoHS directive. Qualification certificates mainly include: 3C certificates and green building materials and products certificates.

Third-party authoritative certification tells you that the vacuum insulated glass product made by the manufacturer is tested and certified concerning its performance, quality, and application.

#### 5. WHAT ARE THE BENEFITS OF VACUUM INSULATED GLASS WHEN USING METAL SEALING?

As the melting point of the metal sealing material is low, it will not cause annealing of the tempered glass in the process of edge sealing. Secondly, the metal material has better malleability. When vacuum glass in use is exposed to additional loads caused by temperature differences or other external

forces, the metal sealing material can withstand more deformation and maintain a good sealing effect. These benefits of metal sealing make vacuum insulated glass more reliable and provide better performance.

#### 6. HOW CAN WE DETERMINE WHETHER A MANUFACTURER IS A SUPPLIER OF QUALIFIED VACUUM INSULATED GLASS?

First, the manufacturer's vacuum insulated glass products should comply with the requirements of the national standards for vacuum insulated glass. Secondly, the manufacturer should have a well-functioning ISO quality management system. Finally, the manufacturer should have sufficient production capacity and experience with large enterprise applications. As a landmark

in high-performance energy-saving glass products, the wide application of vacuum insulated glass will greatly reduce the consumption of building materials and energy, decrease carbon emissions in the construction field, and bring the general public healthy and sustainable quality of life.

LANDGLASS  
TECHNOLOGY CO. LTD

**LandGlass**

Guangjian Building No.12  
Wangcheng Road  
471000 Luoyang  
Henan Province - China  
Tel.: 0086-379-80890368  
Fax: 0086-379-65298878  
E-mail: marketing@landglass.com  
[www.landglass.net/](http://www.landglass.net/)  
[www.landvac.net](http://www.landvac.net)