




Website


BM Sydney is the Exclusive Deitributor for LandVac®


 [bmsydney.com.au/bm-landvac/](https://bmsydney.com.au/bm-landvac/)

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 The data listed in this catalog are subject to technical changes without notice.

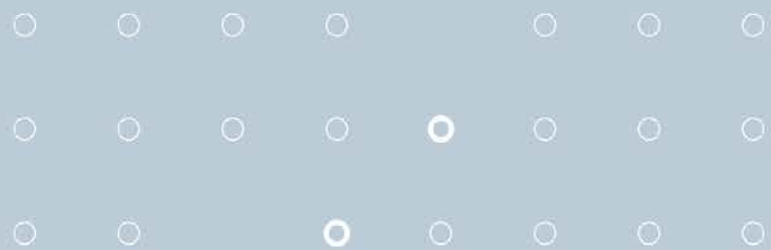
Version 2021







## TRENDSETTER



LandGlass is dedicated to reshaping the industrial ecosystem of intelligent manufacturing and high-performance glass application industries with digital, intelligent, interconnected glass processing solutions and integrated high-performance vacuum insulated glass solutions to achieve lean and efficient manufacturing as well as quality of life with a clean and green environment. LandGlass is making its contributions to industry upgrading and the realization of "Emission Peak and Carbon Neutrality" target.



World-Class Vacuum Insulated Glass Laboratory



The First Enterprise that has Achieved Commercial Success in the Mass Production of Tempered Vacuum Insulated Glass



First AAA Grade Green Building Material Product Certificate Issued for Vacuum Insulated Glass



China Green Product Certification



The ONLY Enterprise Awarded the CCC Certification for VIG with Insulated Glass



Three World-Leading Core Technologies





# LANDVAC® ENERGY SAVING

HIGH COMFORT AND LOW ENERGY CONSUMPTION,  
REVEALING EXTRAORDINARY STYLE AND  
ELEGANCE IN VIVID DETAIL

- Reduce the usage of HVAC systems to enhance natural comfort and stay healthy
- Compared with insulated glass, the energy consumption per unit of floor area is reduced by approximately 20%<sup>①</sup>
- Easy to improve the energy efficiency of fenestration with a variety of profiles and materials

① Taking Harbin (located in the northeast of China, usually -38℃ in winter) for example, at 30% window-to-wall ratio (WWR), the energy consumption per unit of floor area is reduced by approximately 20% compared with the insulated glass of equivalent size.

The climate disaster caused by the greenhouse effect has brought a great challenge to the survival of humankind. And the construction industry, which accounts for 40% of the world's carbon emissions, is one of the main battlefields for emission peak and carbon neutrality. Thanks to the superb thermal insulation and energy consumption reduction properties of vacuum insulated glass, LandVac systematic energy-saving solution is becoming the mainstay in the battle of the construction industry for energy-saving and emission reduction by decreasing material consumption and boosting building energy efficiency!

Product Series	Product Configuration	Specifications								Suitable Regions for Installation
		U-value W/(m <sup>2</sup> ·K)	Visible Light Transmission (VLT) %	Visible Light Reflectance (VLR) %		Solar Heat Gain Coefficient (SHGC)	Shading Coefficient (S C)	Light-to-solar Gain (LSG)	Weighted Sound Reduction Index (dB)	
				Outdoor	Indoor					
Energy Saving Series	5TL+0.3V+5T	0.45	70	11	12	0.39	0.45	1.79	39	All regions, especially the cold areas, the hot-summer/cold-winter zone, or the areas with temperate climate
		0.5	79	13	12	0.57	0.66	1.39	39	All regions, especially the areas that are cold or freezing cold
		0.45	52	16	20	0.30	0.35	1.73	39	All regions, especially the area that have hot summer and warm winter, or the areas with temperate climate
	5T+12A+5TL+0.3V+5T	0.44	62	16	15	0.37	0.43	1.68	41	All regions, especially the cold areas, hot-summer/cold-winter zone, or the areas with temperate climate
		0.48	72	18	16	0.51	0.59	1.41	41	All regions, especially the areas that are cold or freezing cold
		0.44	46	20	22	0.27	0.31	1.7	41	All regions, especially the area that have hot summer and warm winter, or the areas with temperate climate

\* The product parameters in the table are for reference.



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more about  
LandVac



# LANDVAC® NOISE REDUCTION

VARIOUS APPLICATIONS WITH A FULL FREQUENCY RANGE OF NOISE BLOCKING, CREATING A PEACEFUL ENVIRONMENT FAR FROM THE MADDING CROWD

- Weighted sound reduction  $\geq 39$  dB, which is 1.5 times that of ordinary insulated glass
- Optimized product solutions tailored to different characteristics of the noise spectrum
- Patented noise reduction technology further enhances sound insulation

Alexander Graham Bell was not only the inventor of the telephone; part of his name, Bel is also used to form the sound intensity unit decibels (dB). With the development of society, noise pollution has become one of the major environmental problems that disturb people's physical and mental health. Keeping away from noise pollution is now a key factor for the quality of life.

Product Series	Product Configuration	Specifications								Applications
		U-value W/(m² · K)	Visible Light Transmission (VLT) %	Visible Light Reflectance (VLR) %		Solar Heat Gain Coefficient (SHGC)	Shading Coefficient (S C)	Light-to-solar Gain (LSG)	Weighted Sound Reduction Index (dB)	
				Outdoor	Indoor					
Noise Reduction Series	Configuration 1	0.78	72	12	13	0.57	0.66	1.26	40	Effectively isolate noises at various frequencies. Reduce certain urban noises such as those from business activities and music instruments by more than 42dB
	Configuration 2	0.76	68	12	12	0.52	0.60	1.46	42	Effectively isolate low to medium frequency (160-800Hz) noises. Reduce noises from mechanical equipment (motors, generators, etc.) and traffic (subway, vehicles, etc.) by more than 40dB
	Configuration 3	0.70	62	17	17	0.51	0.59	1.21	43	Effectively isolate medium to high frequency (800-4000Hz) noises. Reduce urban, mechanical, and traffic noises by more than 47dB
	Configuration 4	0.67	60	16	17	0.49	0.56	1.22	45	Effectively isolate noises at various frequencies. Reduce aircraft take-off, construction, and other noises by more than 50dB



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# LANDVAC® ANTI-CONDENSATION

CONDENSATION-FREE TRANSPARENCY, MANIFESTING  
LUXURY TASTE AND REFINEMENT IN EVERY DETAIL

- Remain condensation-free when the temperature difference between the two sides exceeds 70°C, keeping away from condensation②
- Lightweight and elegant, highlighting industrial aesthetics
- Restore the original transparency of high-end curtain walls and display windows in cold winter

② Test conditions: Indoor temperature at 25°C, outdoor temperature at -50°C, with relative humidity at 70%.

The first household refrigerator was invented by the German engineer Carl von Linde in 1879. His invention made it easier for people to store and enjoy food. Today, the high-end refrigerator that delivers both aesthetics and performance has become one of the must-have appliances in many families.



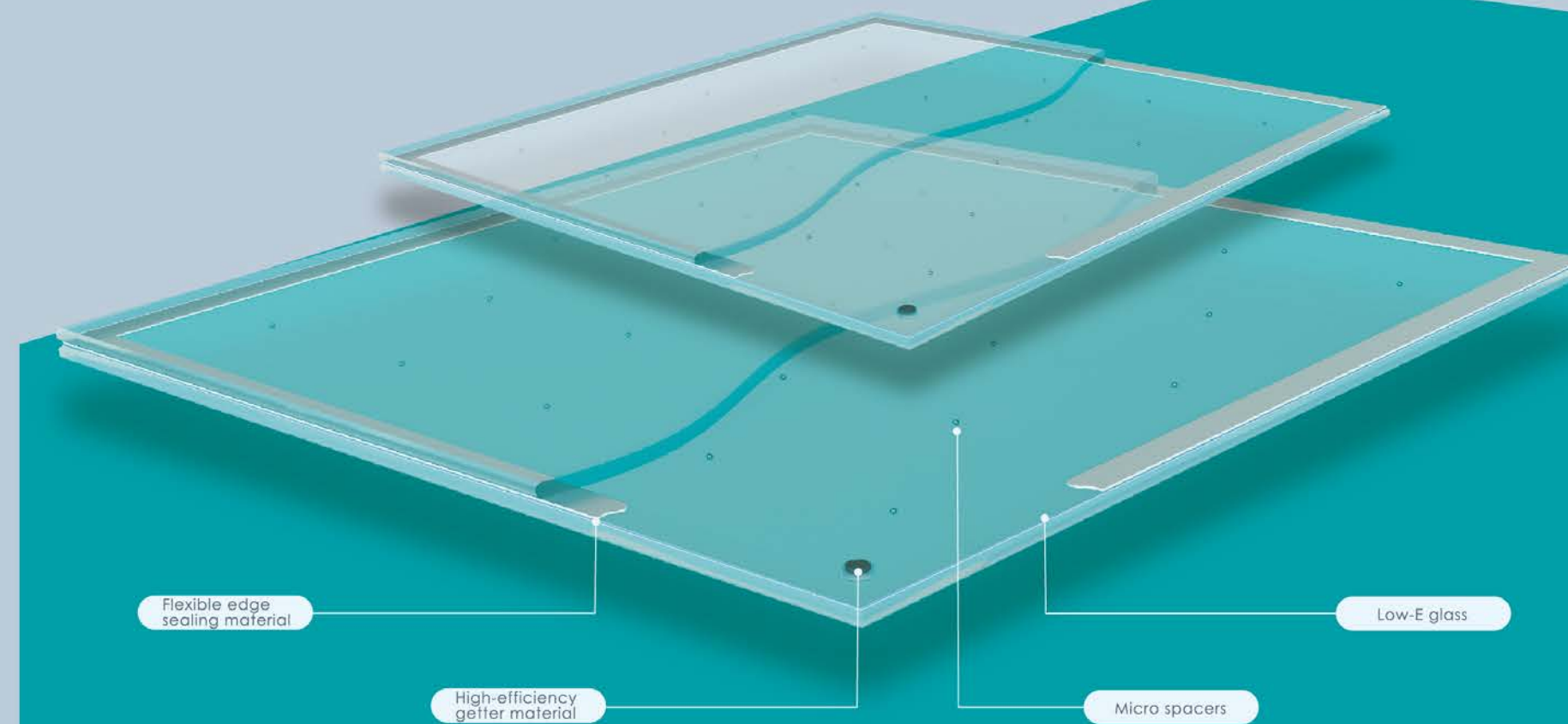
Product Series	Product Configuration	Specifications		Applications
		U-value W/(m <sup>2</sup> · K)	Visible Light Transmission (VLT) %	
Anti-condensation Series	4TL+0.3V+4T	0.45	70	High-end refrigerators and curtain walls in high-altitude cold regions





## INNOVATION PIONEER

Human needs for light resulted in the emergence of windows and glass products; in 1997, inspired by the knowledge of heat and sound insulation properties in outer space, the world's first vacuum insulated glass (VIG) was introduced to the market. In 2016, the LandVac laboratory successfully developed the first commercial-ready tempered vacuum insulated glass—LandVac®. With its unique FLAS™ Flexible Lead-free Alloy Sentry, CVP™ Continuous Vacuumizing Process, and MSE™ Multiple Safety Enhancement technologies, LandVac® brings the development of vacuum insulated glass into a new era.



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## PROVEN QUALITY

Since the British Standards Institution (BSI) introduced the world's first certification mark in 1903, the product certification and qualification industry has had more than a hundred years of history. The continuous development and improvement of product certification and qualification not only enhances product quality, but also guarantees the security of consumers' lives and properties. At present, LandVac® products have been approved by more than a dozen domestic and foreign authoritative testing bodies including CTC, ATI, ANSI, ift, and UL.



15-Year Quality  
Warranty



PICC Insured



AAA Credit Rating



Nationwide Service Network

## Certifications

**SGCC**  
Sub: 2 (China) Certification Co., Ltd.

Administrative Office: AMS, Inc.  
255 West Main Street, PO Box 730  
Sackett Harbor, NY 13655  
Phone: (315) 566-2234  
E-mail: sgcc@sgccert.com

**ACKNOWLEDGEMENT OF CERTIFICATION**  
THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE  
**LandGlass Technology Co., LTD**  
Luoyang, China

IS A CURRENT LICENSEE AND HAS MET ALL GUIDELINES AND REQUIREMENTS FOR THE SGCC CERTIFICATION PROGRAM AND AS SUCH IS ELIGIBLE TO LABEL THE BELOW INDICATED PRODUCT(S) AS SGCC CERTIFIED. REPRESENTATION SAMPLES OF THE BELOW PRODUCTS HAVE BEEN FOUND TO BE IN COMPLIANCE WITH ANSI Z39.1-2009 OR 2015 AS INDICATED. CPIC 15 CFR 1201 STANDARDS, OR BOTH STANDARDS, KNOWN AS COMPOSITE CERTIFICATION (COMP), OR BOTH STANDARDS WITH CANCOSB 12.1 KNOWN AS COM-CAN.

SGCC# IN	MM	Attributes	INT	Type Code	Max Size	ANSI Class	Test Std	ANSI Z391
6476	3/8	10		VGT	U	A	COMP	2015

THIS SGCC PROGRAM CERTIFICATION IS CURRENT AND IN FULL EFFECT AS OF THIS ISSUE DATE. CERTIFICATION IN THE SGCC PROGRAM IS SUBJECT TO SEMI-ANNUAL RENEWAL. PLEASE CHECK THE SGCC WEBSITE AT WWW.SGCC.ORG OR THIS OFFICE FOR MOST CURRENT INFORMATION.

Issue: August 11, 2015  
DATE OF ISSUE: 8/11/2015  
CERIFICATION NUMBER: 117  
ADMINISTRATIVE MANAGER: [Signature]

**Intertek**  
ARCHITECTURAL TESTING

**TEST REPORT**  
Report No.: F7050.01-109-44

Rendered to:  
LUOYANG LANDGLASS TECHNOLOGY CO., LTD.  
Luoyang, CHINA

**PRODUCT TYPE:** Tempered Vacuum Insulated Glass  
**SERIES/MODEL:** LandVac SL4

TEST	Summary of Results
Title Design Pressure	$\pm 7200$ Pa ( $\pm 150.38$ psi)

Reference must be made to Report No. F7050.01-109-44, dated 09/08/16 for complete test specimen description and detailed test results.

130 Denny Court  
York, PA 17406  
www.archtest.com • www.intertek.com/building  
P: 717.764.7700  
F: 717.764.4129

**Evidence of Performance**  
Thermal transmittance

Test Report  
No. 16-098836-PR02  
(P8-101-04-en-01)

Client:  
**Luoyang Landglass Technology**  
CO, LTD-Guanglan Building  
No. 12 Wangcheng Road  
471000 Luoyang-Henan  
China

Product:  
Low-E Vacuum insulating glass unit  
LandVac (Landglass Vacuum Insulating Glass)

Designation:  
Insulating glass unit; lowest transmittance, with a high thermal insulation performance, STL / 0.3 Vacuum / 4T;  
Coating: Low-E; Coating position: Pos. 2; Coating area:  $\pm 0.05$  (nominal value);  $\pm 0.1$  Pa (Declared vacuum level); Spacer: Edge seals: Metal; Evacuation port: Evacuation port: 10; Spacer: Metal

Sub: 1 2/3

Thermal transmittance:  
 $U_{g, before} = 0.4 \text{ W/(m}^2 \cdot \text{K)}$   
 $U_{g, after} = 0.4 \text{ W/(m}^2 \cdot \text{K)}$

ift  
ROSENHEIM

ift Rosenheim  
20.12.2016

For: [Signature]  
Head of Building Physics  
Building Authority

For: [Signature]  
Head of Building Physics  
Building Authority

**Evidence of Performance**  
Airborne sound insulation of building components

Test Report  
No. 16-098836-PR01  
(P8-101-04-en-01)

Client:  
**Luoyang Landglass Technology**  
CO, LTD-Guanglan Building  
No. 12 Wangcheng Road  
471000 Luoyang-Henan  
China

Product:  
Insulating glass unit  
Tempered vacuum insulated glass

Designation:  
Insulating glass unit; lowest transmittance, with a high thermal insulation performance, STL / 0.3 Vacuum / 4T;  
Coating: Low-E; Coating position: Pos. 2; Coating area:  $\pm 0.05$  (nominal value);  $\pm 0.1$  Pa (Declared vacuum level); Spacer: Edge seals: Metal; Evacuation port: Evacuation port: 10; Spacer: Metal

Sub: 1 2/3

Weighted sound reduction index  $R_w$   
Spectrum adaptation terms C and C<sub>tr</sub>  
 $R_w (C, C_{tr}) = 36 (-2; 3) \text{ dB}$

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ift Rosenheim  
01.08.2016

For: [Signature]  
Head of Building Physics  
Building Authority

For: [Signature]  
Head of Building Physics  
Building Authority



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## SHINE ON YOUR DREAMS

Large skylight windows and picture windows fulfilling people's psychological need for open space become the trend of modern architecture. At present, the first continuous automated tempered vacuum insulated glass production line independently developed by LandGlass has an annual production capacity of 200,000 square meters with maximum size up to 1500X2500mm to meet the market demand for large quantities and customization.








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