

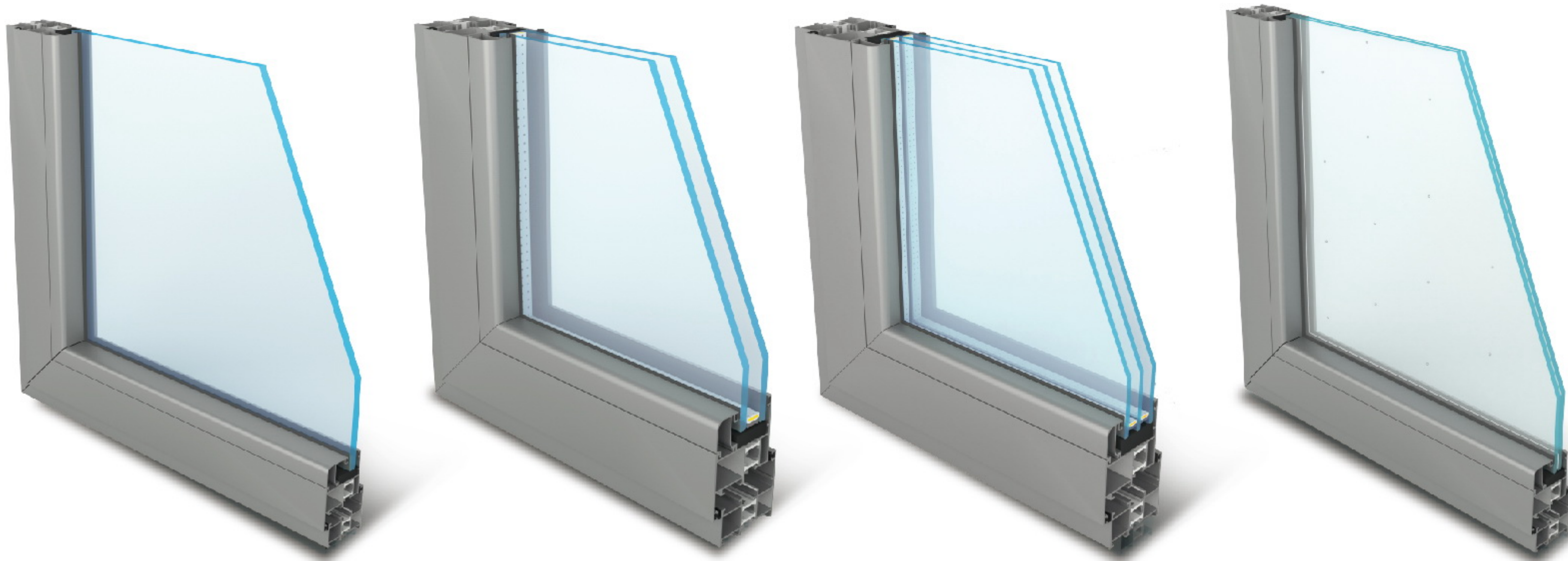


The Ultimate Solution of
Energy Saving Glass
The New Standard
for Quality Life

LandVac®

Tempered Vacuum Insulated Glass

◀ LandVac VS Traditional Glass ▶



Parameters	Single Glass	Insulated Glass	Triple Glass	LandVac
U - Value(W/m² K)	5.8	1.5	1.0	0.45
Thickness	4mm	28mm	36mm	8mm
Visible Light Transmittance	90%	80%	71%	78%
The Weighted Sound Reduction Rw (C;Ctr)	29 (-2;-3)dB	31 (-2;-5)dB	32 (-1;-5)dB	36 (-2;-3)dB

What's Landvac?

It's tempered Vacuum Insulated Glass (VIG) from Landglass.

Landvac combines its best performances in thermal insulation and noise reduction as well as free of inner condensation with appealing aesthetics, which integrates seamlessly into existing frames or into new windows and curtain walls.

Unlike other VIG technologies, Landglass offers a unique low temperature sealing technology and has successfully solved the world-class problem of tempered glass annealing during the production, ensuring much higher vacuum and much longer application / service life.

Landglass adopts the most advanced VIG technology, optimizing indoor comfort by outperforming the conventional IGU.



Summary

- ▶ More efficient than single glass, double glass as well as triple-glass unit.
- ▶ Better light transmission than double & triple glass due to its free of inner condensation.
- ▶ Better in noise reduction compared with double glass and triple glass.
- ▶ Better solar gain with outstanding U value, compared with double & triple glass,
- ▶ Manufactured in Luoyang, China and available for delivering to any global destinations.

What's so special about Landvac?	What does this mean for you?
■ Aesthetical slimmer design	Suitable for retrofitting of existing windows
■ Outstanding thermal insulation	Constant U value 0.45W/(m²K) regardless of inclination
■ With Rw 36dB in noise reduction	Making your rooms in downtown quiet like a library
■ Free of inner condensation	Making windows or freezers to maintain their transparency
■ Fully tempered safety glass	When broken, it becomes small less harmful particles
■ Slimmer structure	Much lighter (20kg/ m² / 8.3mm, 25kg/m² /10.3mm) than IGU
■ Environmental adaptability	No thermal expansion or contraction in the high vacuum chamber, same U value at different locations or elevation
■ Super long life	Over 25 years in service life and 15 years guarantee
■ Lead free and recycled	Recycled and embraces the circular economy
■ Usage of more free solar energy	Lower energy consumption and low emissions


Ultimate slim design for maximum indoor comfort

Light and energy performance (1)

LandVac	Total Thickness (mm)	LT (%)	LR ext (%)	LR Int (%)	SHGC	U-value (W/m²k)	Noise Reduction Rw [C ; Ctr]
4TL+0.3V+4T	8.3	80	14	13	0.59	0.45	36 [-2;-3]
5TL+0.3V+5T	10.3	80	13	13	0.58		36 [-2;-3]
6TL+0.3V+6T	12.3	80	13	13	0.58		39 [-1;-2]

Light and energy performance (2)

Dimension	Maximum	1.5m x 2.5m
	Minimum	0.3m x 0.3m
Shape	Standard	Square or rectangle
	Special Shape	Negotiated
Laminated Glass	Available	
	Option: As per requirements	



Remarks: The above data is for reference only. The specific product parameters need to be calculated separately. For parameters related to a specific product, please refer to the data provided by LandGlass.

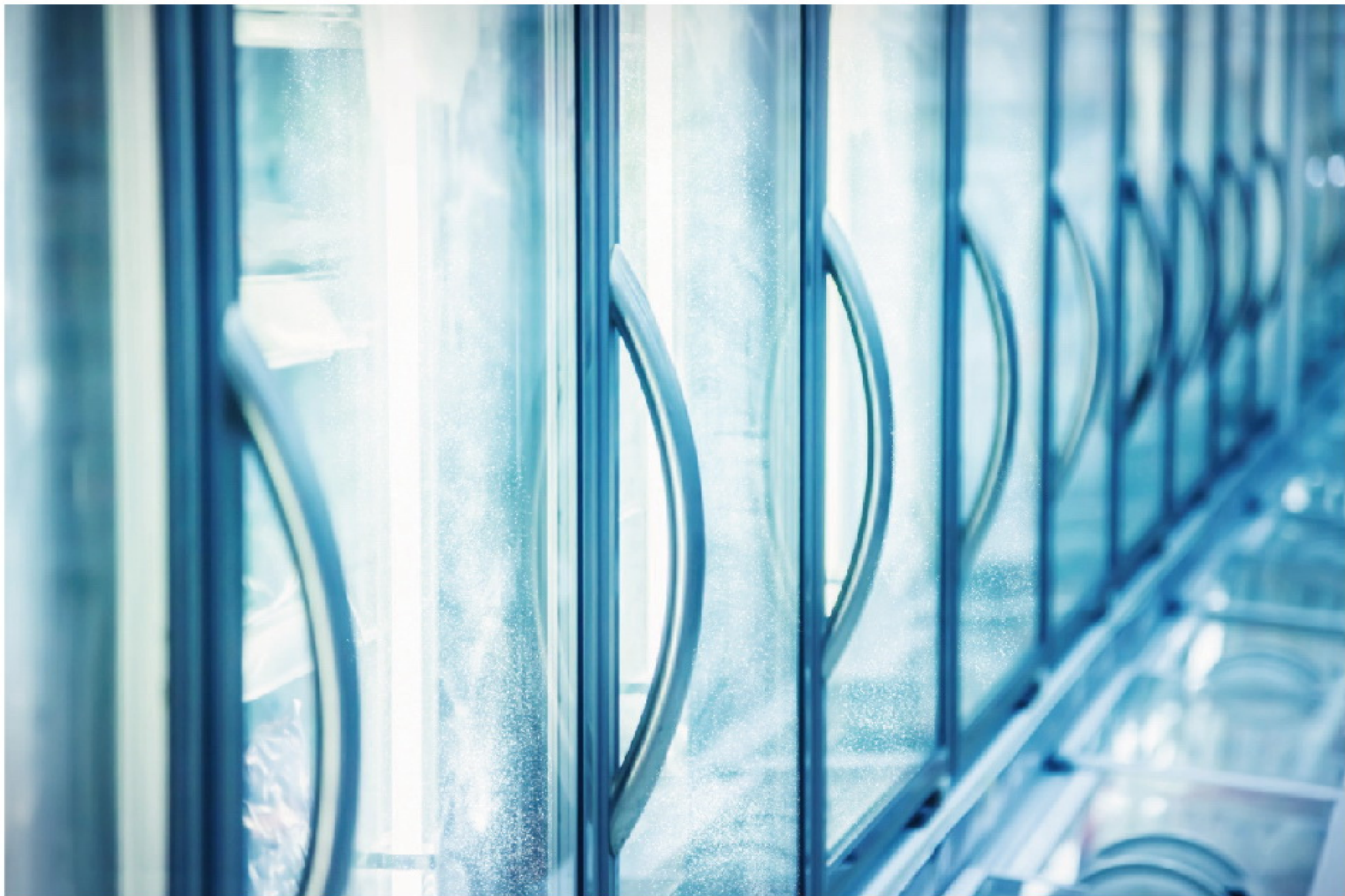


Compare LandVac with double-glass and triple-glass:

	Configuration	U-Value (W/m²K)	Thickness (mm)	Weight (kg/m²)
LandVac	4TL+0.3V+4T	0.45	8.3	20
Double-glass	4TL+9Ar+4T	1.6	17	20
Triple-glass	4T+9Ar+4TL+9Ar+4T	1.0	30	30

Compare LandVac door with other glass door on refrigerators
(provided by LandVac customer) :

Refrigerator Door	Cooling Mode	Condensation N/Y	Electric Fee (USD/month)	Working Time for compressor (h/day)
Triple-glass door with electrical heating	Air Cooling	N	321	13
LandVac VIG door	Air Cooling	N	214	8
LandVac VIG door	Direct Cooling	N	171	7
Remarks	1. Testing Condition: Inner door -15 °C ; Ourdoor 25 °C , humidity 85% 2. Testing Amount: 11 Refrigerators with 2 glass doors for each one 3. Testing Term: one month			



Double-glass



LandVac VIG

LandVac VIG brings benefits on the free condensation and low-consumption energy for the commercial refrigerators. LandGlass has finished the laboratory experiments and got the conclusion that LandVac VIG can save the energy by 34%-43% than the normal double-glass doors.