

Argon-Filled Soundproof Double Glazing Glass Unit

SKU: 108687687469 | Category: Products & Modules, Hardware & Accessories



Product Overview

We manufacture acoustic insulated glass units engineered for sound reduction in offices, hotels, and bedrooms. The construction combines qualified tempered float glass with an aluminum alloy frame, 3 mm thickness. The unit is built as a double-layer assembly with a vacuum insulation cavity, which supports both acoustic performance and thermal separation. Our factory produces these panels for commercial glazing projects, hospitality fit-outs, and residential window replacement where noise control is the primary requirement.



What Makes This Product Different

Tempered Float Glass Construction

Qualified tempered float glass provides the strength base, while the aluminum alloy frame adds rigidity without the weight penalty of solid metal framing.

Vacuum Insulation Cavity

The double-layer structure with a vacuum insulation gap separates the interior and exterior glass panes, which is the mechanism behind the acoustic and thermal performance.

Transparent High-Light-Transmission Finish

The transparent color and high light transmittance rating allow the unit to be used in daylight-dependent spaces such as offices and hotel rooms without blocking natural light.

Multi-Sector Application Range

The same panel format is rated for offices, hotels, hospitals, corridors, and residential apartments, which reduces the number of SKUs a distributor needs to stock.

Five-Year Warranty Coverage

The unit carries a 5-year warranty service term, backed by online technical support for glazing and performance questions after delivery.

Material comprehensive new upgrade

Hollow glass customization

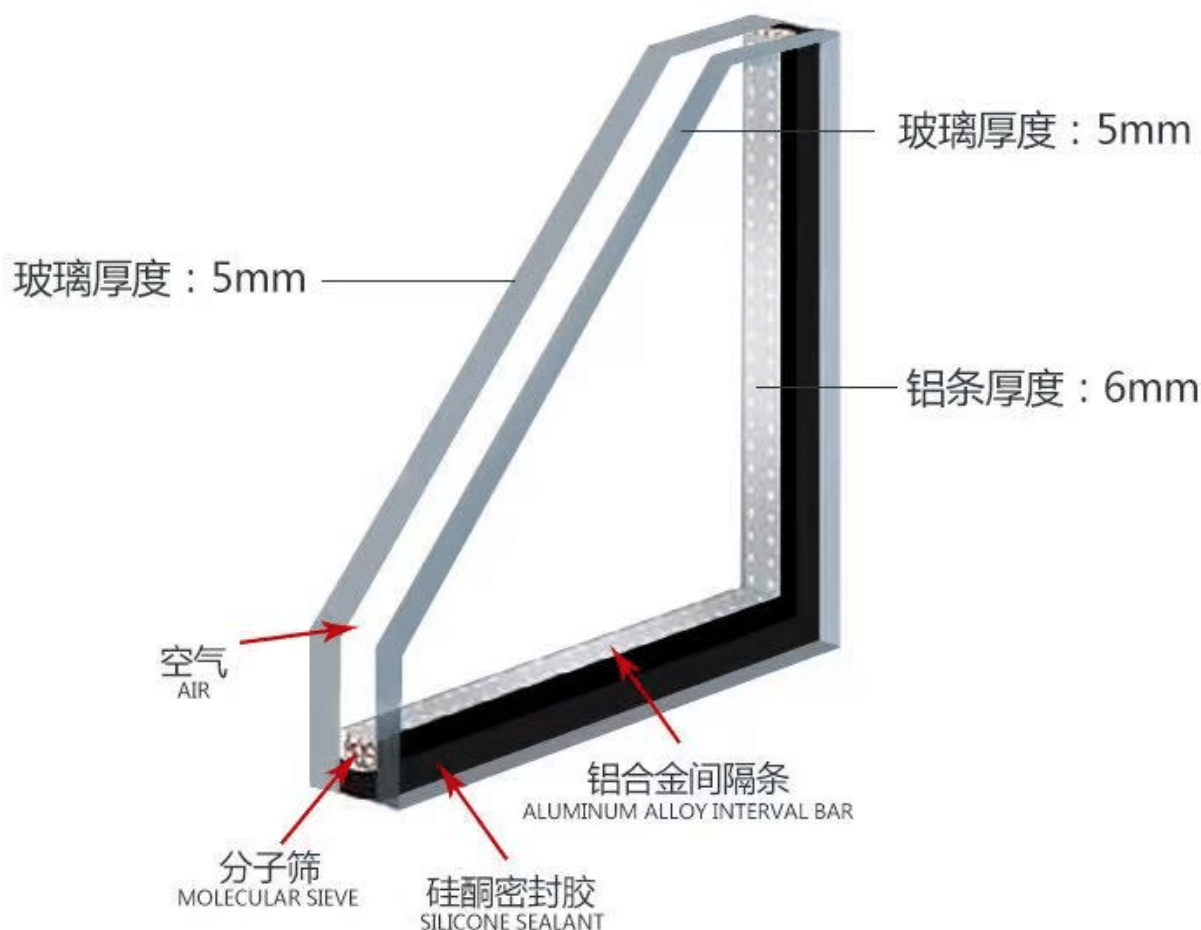
- High impact strength
- Various special-shaped
- Smooth and easy to clean
- Real Material



Specifications

Material	Aluminum alloy frame with qualified tempered float glass
Thickness	3 mm
Color	Transparent
Shape	Smooth surface
Structure	Solid and hollow double-layer assembly
Features	Eco-friendly, noise reduction, durable, smooth, flame retardant, high light transmission, heat resistant, double layer, transparent, vacuum insulation
Function	High strength
Warranty Service	5 years
After-Sales Service	Online technical support
Engineering Solution Capability	Total solution and other project support
Place of Origin	Shandong, China
Model Number	GDIG001

5+6A+5剖面图



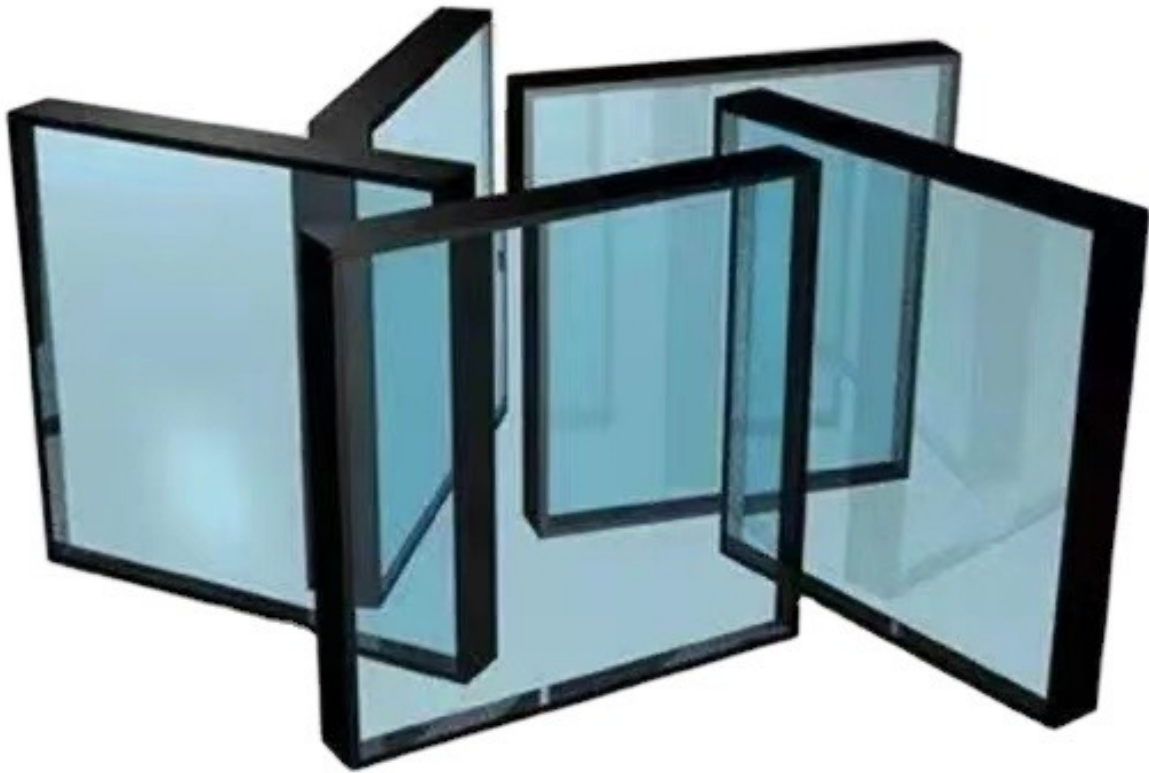
Key Performance Details

Parameter	Performance Implication	Best For
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3 mm glass thickness	A thinner glass profile reduces overall unit weight, which matters when the panel is installed in existing window frames or lightweight curtain wall systems that have load limits.	Retrofit window projects and multi-panel facades where weight per unit must stay controlled.
Vacuum insulation cavity	The vacuum gap between the two glass layers removes air as a sound and heat transfer medium, which is why the unit is rated for both noise reduction and thermal insulation.	Bedrooms, hotel guest rooms, and offices located near traffic or mechanical noise sources.
Tempered float glass	Tempering increases the glass surface strength relative to standard annealed glass, making the panel more resistant to thermal stress and impact.	High-traffic glazing such as corridors, hospital partitions, and ground-floor office windows.
High light transmission	The transparent finish allows visible daylight to pass through while the vacuum layer handles acoustic and thermal separation, so noise control does not require sacrificing natural light.	Daylight-dependent spaces including offices, atriums, and hotel lobbies.
Aluminum alloy frame	Aluminum alloy provides a rigid, corrosion-resistant edge structure that holds the glass layers in alignment and protects the vacuum seal.	Exterior-facing glazing exposed to weather and temperature swings.

Flame Retardant Properties: The unit carries a flame retardant rating, which supports use in commercial buildings where fire safety requirements apply to glazing materials.

Heat Resistance: Heat resistant construction allows the panel to maintain its vacuum seal and optical clarity across temperature ranges typical of exterior building facades.



Applications

Industry	Use Case	Why This Product Fits
Office Buildings	Exterior windows and interior partitions in open-plan offices and meeting rooms.	The vacuum insulation cavity reduces exterior traffic and mechanical noise while the transparent finish preserves the daylight that office environments depend on.
Hotels	Guest room windows and corridor glazing where outside noise affects guest comfort.	Noise reduction is the primary guest complaint driver in urban hotels, and the double-layer vacuum construction targets that directly without blocking room light.
Residential Apartments and Villas	Bedroom and living area window replacement in noise-exposed residential buildings.	The 3 mm thickness keeps the unit compatible with standard residential window frames while the acoustic layer addresses sleep disruption from external noise.
Hospitals and Clinics	Patient room windows and corridor glazing in healthcare facilities.	Acoustic separation supports patient rest, and the tempered glass surface meets the durability expectations of high-use healthcare environments.



How This Product Compares

	This Product	Alternative
Dimension		
Insulation medium	Vacuum cavity between double glass layers	Air or gas-filled cavity in standard double glazing
Glass type	Qualified tempered float glass	Annealed float glass without tempering
Frame material	Aluminum alloy	PVC or wooden frame profiles
Acoustic function	Noise reduction rated as a primary feature	Thermal insulation primary, acoustic performance secondary
Warranty term	5-year warranty service	Varies by supplier, often shorter on vacuum-sealed units



Customization Options

Customizable Aspects

Glass thickness adjustments within the supported range, aluminum alloy frame profile changes, and panel dimensions matched to project window schedules.

Color and Finish

Transparent finish is standard; tinted or coated glass options and frame color matching can be discussed for project-specific requirements.

Logo and Branding

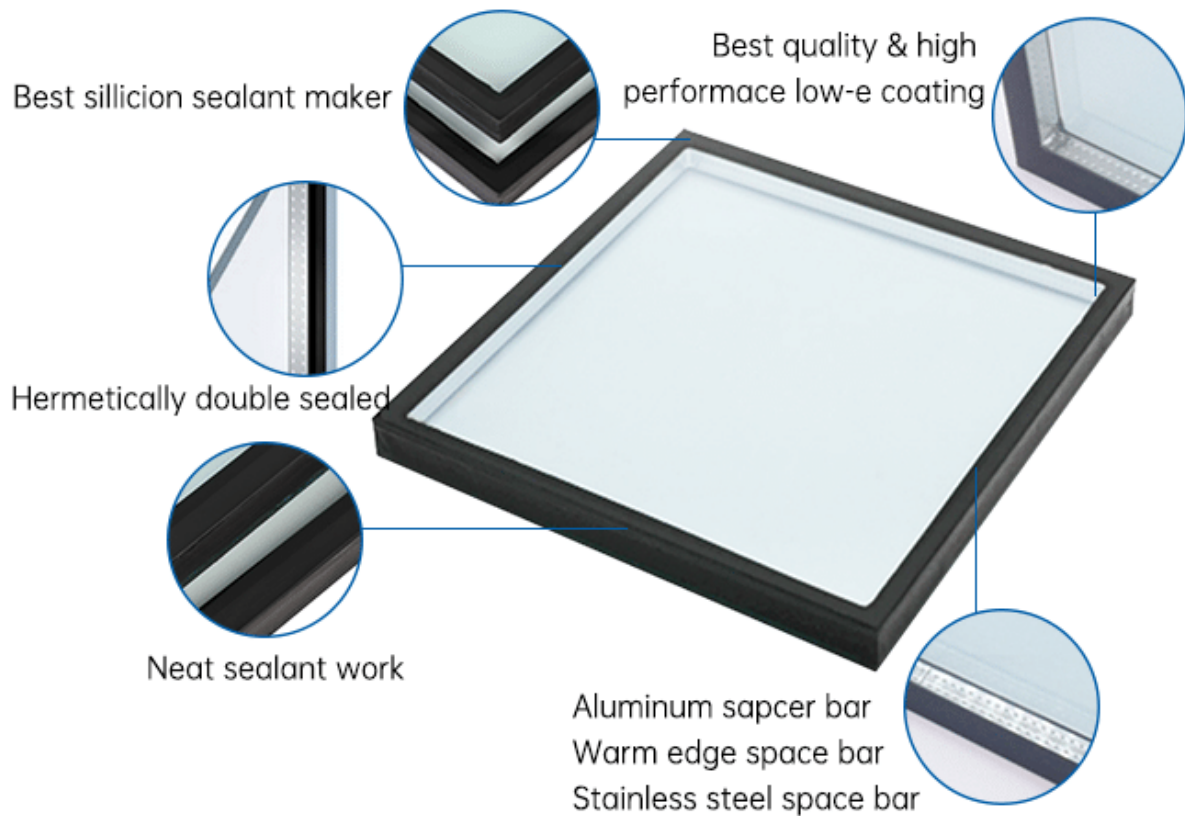
Logo application on the frame or glass edge, plus custom packaging branding for distributors selling

under their own label.

Project Solution Support

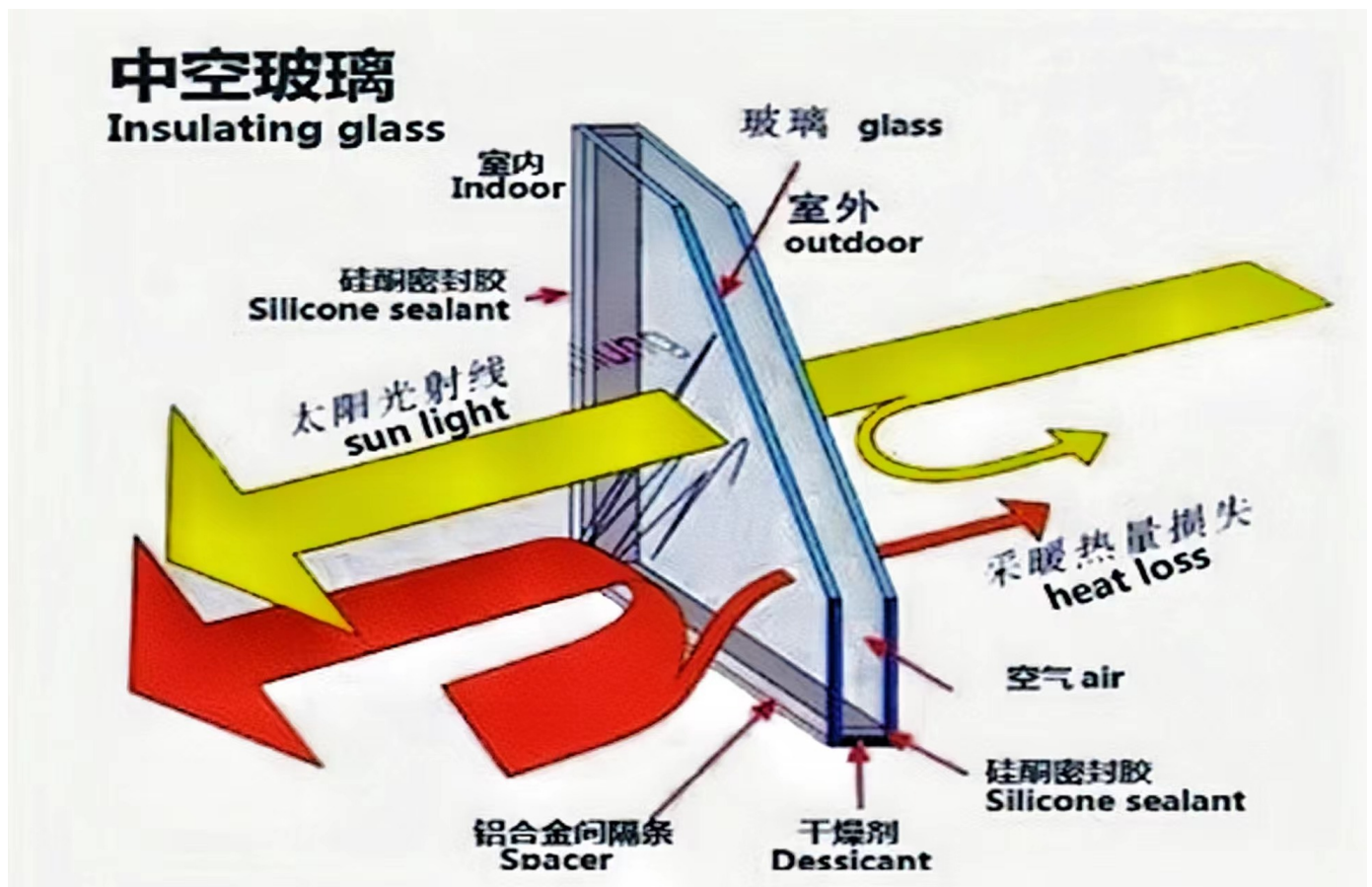
Total solution engineering support for glazing projects, including specification review and panel sizing against architectural drawings.

Insulating Glass Details



Packaging & Shipping

Glass units are packed for export transport with edge protection and separation between panels to prevent surface contact during transit. Standard export packaging is used for wholesale and project orders, and retail-ready or display packaging can be arranged for distributors. Shipping is coordinated from Shandong, China, with panel dimensions and order volume determining the most suitable transport configuration.



Why Work With Us

Glass Unit Manufacturing Focus

Our factory produces insulated glass units as a core product line, which means the vacuum sealing and double-layer assembly process is controlled in-house rather than outsourced.

Material Traceability

We work with qualified tempered float glass and aluminum alloy frames, and can document material sourcing for buyers who need it for project submittals.

Project Solution Engineering

Total solution capability means we can review architectural window schedules and recommend panel configurations rather than only supplying standard sizes.

After-Sales Technical Support

Online technical support is provided after delivery for glazing performance questions, seal integrity concerns, and application guidance.

Specifications

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Get a Quote

For factory-direct pricing, samples and lead times, contact our project team.

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