

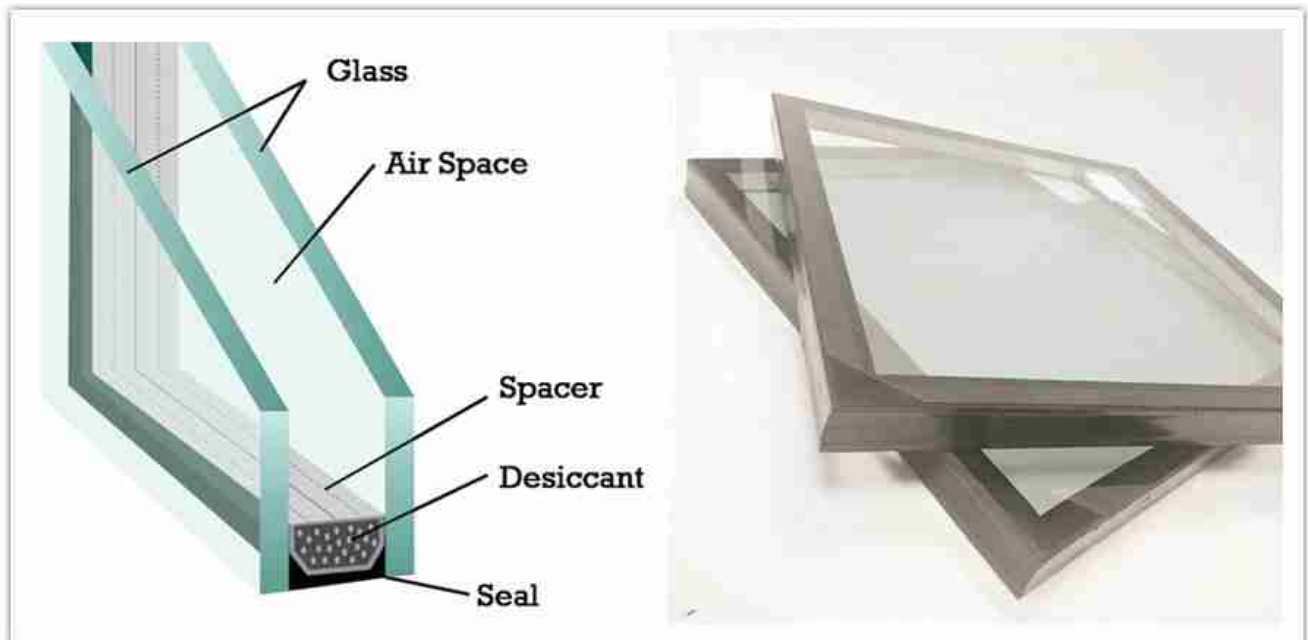
Excellent soundproofing energy saving 6mm+12A+6mm insulated glazing unit igu glass



1, What is insulated glazing unit glass□

Insulated glazing unit glass, is also called igu glass. It is a kind of two or more glass panels separated by an aluminum spacer(there will be desiccant filled inside the aluminum

spacer), sealing with butyl rubber and structural sealant under strict process quality control. Making sure that no leaking or overstep flaws. Insulated glazing unit glass is mainly used for the function of soundproofing and energy saving. Extra functions like decorations are also available.



2 What are the advantages of insulated glazing unit glass?

(1) **Splendid thermal insulation performance.** There are three ways of thermal transfer: heat radiation, heat convection, and heat conduction. Among them, heat radiation accounts for 50% to 60% of heat transfer, and heat convection and heat conduction account for 20% to 25%, respectively. The insulating performance of insulated glazing unit glass depends on its resistance to heat conduction. In order to improve the insulating performance of the igu glass, the igu glass air cavity can also be filled with an inert gas such as [argon gas](#), or a three-glass two-cavity insulating glass structure with

different thickness.

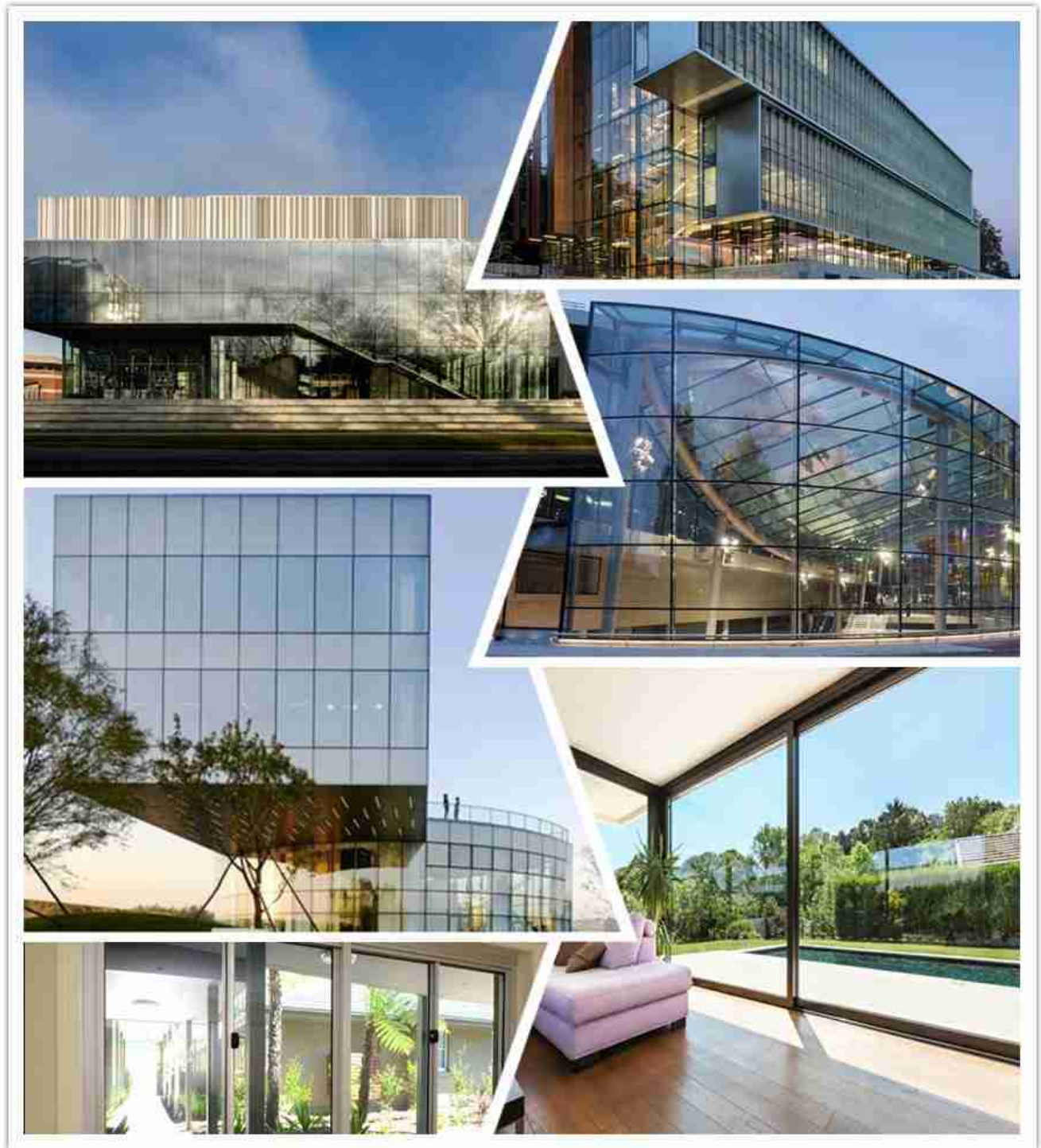
(2) **Soundproofing performance.** Ordinary insulating glass can attenuate the noise entering the room by about 30dB. By choosing non-equal-thickness glass and adopting glue or metal-free spacers, the noise can be attenuated by about 50dB.

(3) **Prevent condensation, reduce cold radiation, and higher safety performance.** Since there is a desiccant that can adsorb water molecules inside the hollow glass when the temperature is lowered, condensation will not occur inside the hollow glass, and at the same time, the dew point on the outer surface of the hollow glass will also increase. The insulating performance of insulating glass is better, the temperature difference between the two sides of the glass is larger, and the effect of cold radiation can also be reduced.

(4) **Safety performance.** The use of insulating glass can improve the safety performance of the glass. In the case of using the original glass of the same thickness, the wind pressure strength of the insulating glass is 1.5 times that of the ordinary single glass.

3, What is the applications for insulated glazing unit glass?

Igu glass is widely used in facade, curtain wall, windows, doors, partition walls projects.



4, Some typical types of glass

products performance



Shenzhen Dragon Glass Co., Ltd

Glass Performance Data

Configuration	Visible light T%	Visible light Rout%	Visible light Rin%	Solar energy T%	Solar energy Rout%	SC	SHGC	NFRC U-Value Sum.	NFRC U-Value Win.	European U-Value	CLB
6mm clear tempered	89	8	8	8	7	0.97	0.84	5.24	5.81	5.73	clear
6mm clear +1.52PVB+ 6mm clear	86	8	8	7	6	0.85	0.74	4.89	5.39	5.34	clear
6mm clear + 12A + 6mm clear	81	14	14	66	12	0.85	0.74	2.84	2.71	2.81	clear
6mm clear Low e + 12A + 6mm clear	46	22	10	29	24	0.41	0.36	1.82	1.82	1.81	light blue grey
6mm clear Low e + 12Ar + 6mm clear	46	22	10	29	24	0.41	0.36	1.51	1.53	1.47	light blue grey
6mm clear Low e + 12A + 6mm clear+ 12A + 6mm clear	41	22	16	25	21	0.37	0.32	1.32	1.38	1.34	light blue grey

As you can see above, the IGU glass is very energy saving comparing to normal tempered glass panels or laminated glass panels. Sometimes argon gas is adopted to enhance the heat insulating function. If you need extreme heat isolation, triple glazing glass will be suggested.

5, What [Shenzhen Dragon Glass](#) can provide for IGU glass products?

Product name	Insulated glazing unit glass
Glass thickness	5+5mm, 6+6mm, 8+8mm, 10+10mm, 12+12mm, etc 5+5+5mm, 6+6+6mm, 8+8+8mm, etc Other types of configurations also available.
Spacer thickness	6A, 9A, 12A, 15A, etc Other types available.
Spacer color	Silver, Grey, Black, etc
Functions	Soundproofing, Energy saving, Safety, etc

IGU glass types	clear float insulated glass; tinted float insulated glass; clear tempered insulated glass; Ultra clear IGU glass; Low e coating IGU glass ; Ceramic frit IGU glass; Curved IGU glass, Large size IGU glass, etc Any types of insulated glazing projects you have in mind, you can contact us.
IGU glass shape	Flat/curved
Max size	3200*12000mm
Capacity	2500 SQM/Day
Certification	IGCC / CE /CCC /ISO9001, etc

6, Shenzhen Dragon Glass production machines overview

World advanced machines making sure that our quality, accuracy is good. Large quantity capacity can ensure our fast delivery to you!



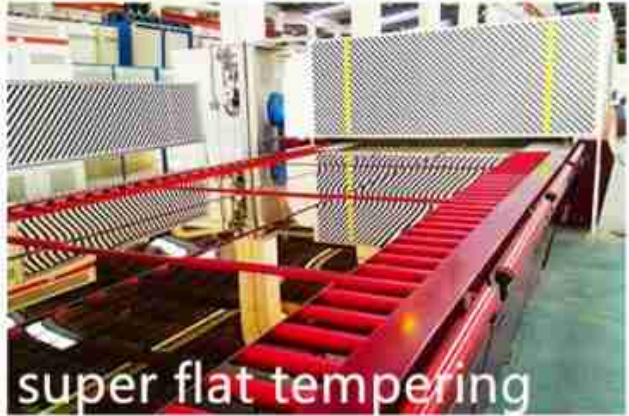
low e line



cutting line



tempering line



super flat tempering



laminating machine



dust-free environment



grinding machine



waterjet machine

7, IGU glass products details

Under strict quality control system, our insulated glazing unit products are flawless which can guarantee meeting your facade or window projects requirement. No need to worry about the flaws or installation problems.



Strong plywood crates to make sure glass safety during long distance transportation.



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