



山东耀华

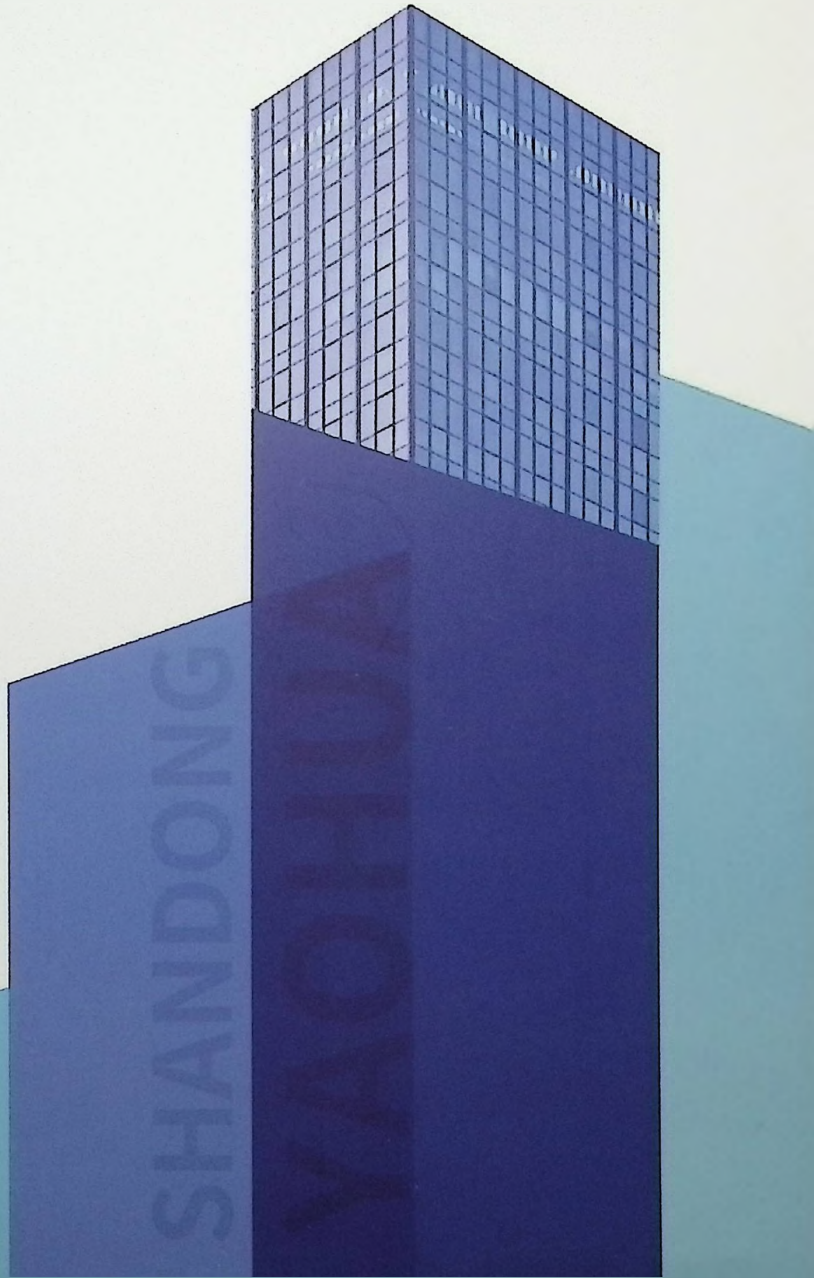
—SHANDONG YAOHUA—

Since 1985

追求卓越品质 服务全球客户

Pursue Superior Quality
Serve Global Customers

山东耀华玻璃有限公司
SHANDONG YAOHUA GLASS CO.,LTD





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**01****COMPANY
INTRODUCTION****公司簡介**

Founded in 1985, Shandong Yaohua is a national high-tech enterprise. It has been ranked as one of the top 30 glass processing enterprises in China for many years in a row. It is a smart manufacturer and supplier of high-end construction glass. Now it has more than 50,000 square meters of production and operation site and the products are exported to more than 60 countries and regions.

The company has passed ISO9001 quality management system certification, intellectual property management system certification, national security glass compulsory certification (3C Certification), energy-saving product certification, export products through the Australian standard certification, the European Union standard certification, the United States SGCC certification and north American certification IGCC.

Shandong Yaohua mainly produces three categories of products: first one is the single-silver, double-silver and triple-silver tempered insulating glass based on low-e glass with LOW radiation and energy saving; the second one is the export glass with various laminated and toughened; the third one is 15 and 19 mm glass with jumbo size and multi layer laminated glass and deep processing glass such as fire-resistant, silk screen printing, heat sokaed, bulletproof and CNC glass.

The company's overall production capacity has reached 1.2 million sqm for insulated glass, 1.5 million sqm for laminated glass, 4 million sqm for tempered glass. The product quality has reached the international advanced level.

Shandong Yaohua invested the international leading Austrian LiSEC intelligent glass processing systems, product quality and level of automation has been greatly improved, marked the company entered a new period of intelligent production.



2014

National High Tech Enterprise

30

The Top 30 Processing Glass Enterprises in China

60

Exports more than 60 Countries

The company's customers are distributed in over 60 countries and regions. Many Domestic landmark buildings used Shandong Yaohua brand's glass, such as Qingdao Cruise Home Port, Jinan High Speed Railway Station, Jinan Olympic Sports Center, Shandong Public Art Center, etc. Meanwhile, Shandong Yaohua serves a number of well-known domestic real estate enterprises, such as Vanke, China Resources, Wanda, Henglong, Greentown, China Overseas Property, Greenland, Poly group, etc.

The company has expanded overseas business for more than 10 years, so far Yaohua has become one of the major high-end architectural glass export base in China. Every year, thousands of containers of glass are exported to all over the world. Many Overseas landmark buildings used Shandong Yaohua brand's glass. For example, South Korea Pyeongchang Winter Olympic Venue, Zambia Lusaka International Airport, Togo Lome International Airport, Australia Canberra Infinity Tower, Vietnam Ho Chi Minh Commercial Bank, etc.

The company will keep the excellent performance according to customer orientation and establish outstanding company branding through stable quality and best service.



12

DEVELOPMENT HISTORY

发展历程

▶ In 1985, the Company was established as China Yaohua Glass Company Jinan Lixia department. In the beginning, the workshop covers only 50 square meters and 20 employees. Without any equipments, the mainly business are hand-cutting glass and mirror, and wholesale glass panels.

▶ In 2001, The company changed the name as Shandong Yaohua Glass Co., Ltd., and invested the first tempering furnace and insulating glass production line. Yaohua Glass entered the period for the production of tempered and insulated glass.

▶ In 2008, Yaohua build a modern energy-saving glass factory, covering an area of 20,000 square meters. The company has introduced Temglass Tempering Furnace, Bystronic Insulated Glass Production Line and so on, specializing in the production of high-end energy-saving, low-e insulating glass. With the rapid growth of international export business, the products are exported to all over the world, and have entered the modern production stage of high-end energy-saving glass, and become the advanced ranks of China's glass processing enterprises.

1985

1996

2001

2004

2008

▶ In 1996, With development of business, the company moved to Huayuan Road. the area of the workshop expand to 1000 square meters and 50 employees. While being the largest original glass wholesalers in Jinan, Yaohua began to explore the field of deep processing glass by introducing the edging machine and enter the period of deep processing glass.

▶ In 2004, The company entered a period of rapid growth. There were 200 employees and 20,000 square meters of modern standard workshop. Yaohua invested the first 8m long tempering furnace and laminated glass production line in Shandong Province.



In 2016, Yaohua Glass has been awarded the title of China processed glass top 30th for 3 years and keeps the international status of one of Chinese largest export base of building glass by exporting thousands of containers. At present, the company has become one of the largest building glass production base in the north China, and is in the leading position of jumbo size construction glass market.

In 2020, Faced with the sudden outbreak of COVID-19, as well as difficult market challenges, the company strengthened confidence and solidarity and take science-based and targeted measures, after the company's efforts, the epidemic was brought under control, sales also increased.

2013

In 2013, The company developed steadily and actively promote energy-saving building products. Yaohua was given many honors by the government, such as Shandong Province Famous Mark, Shandong Province Famous Brand, Jinan Enterprise Technology Center. In the same year, Shandong Yaohua Company introduced Tanwai Tongchang furnace which can temper double silver and Triple silver low-e glass, Lisec automatic cutting machine and the second Bystronic automatic insulated glass production line.

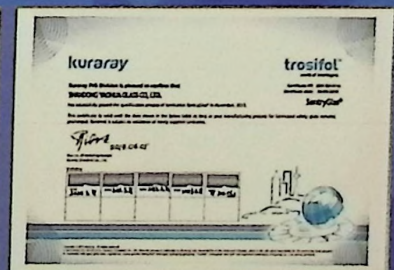
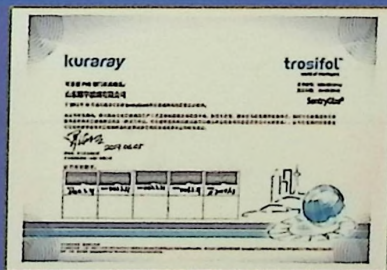
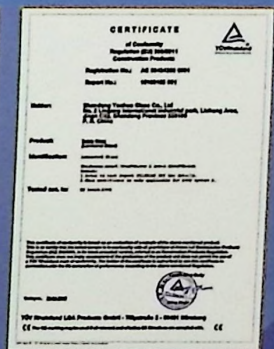
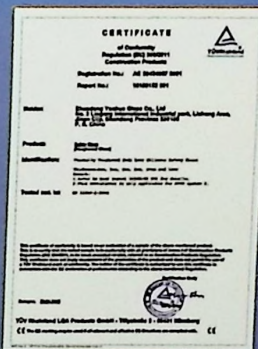
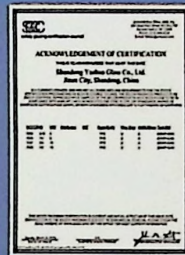
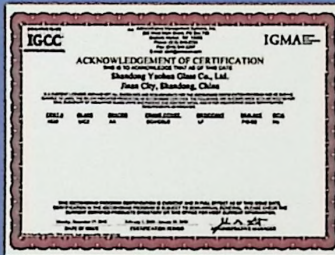
2018

In 2018, The company moved to Jinan Lingang International Intelligent Manufacturing Industrial Park. Comply with the third information wave and the development trend of industry 4.0 era, carry out technical transformation on the existing equipment, introduce the international leading Austrian LiSEC intelligent glass processing systems, promote the automation of production, and enter the new period of intelligent production.

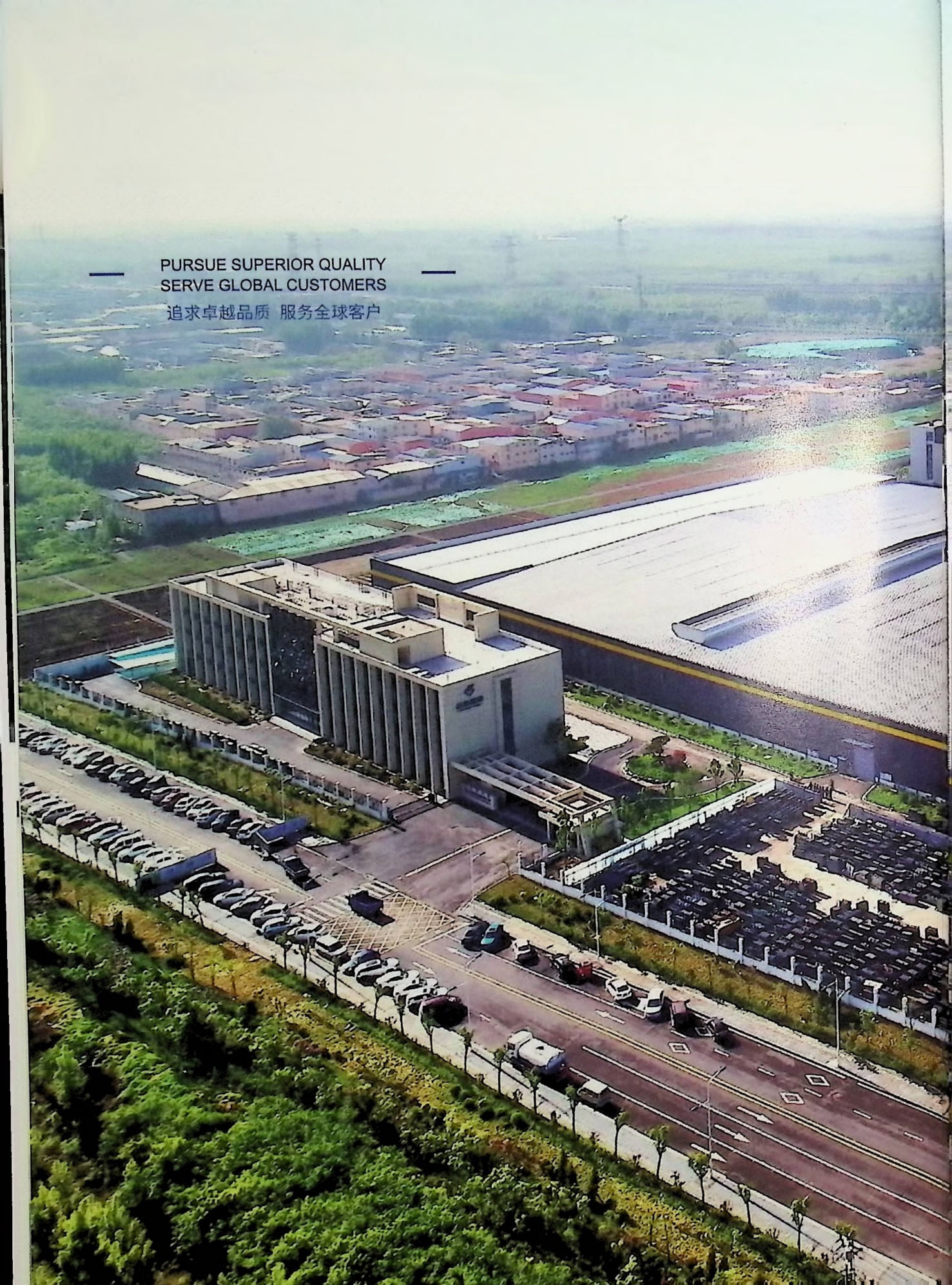
2020

IN FUTURE

In Future, To pursuit the excellent quality of highend architectural glass for every customer is the sacred mission of us. We will insist honesty, keep going to pursuit of a perfect career and a new chapter!



PURSUE SUPERIOR QUALITY
SERVE GLOBAL CUSTOMERS
追求卓越品质 服务全球客户



04

INTELLIGENT PRODUCTION
WORKSHOP

智能化生产车间





山东耀华
—SHANDONG YAOHUA—

www.yaohuaglass.net

INTELLIGENT PRODUCTION WORKSHOP

Large modern intelligent production workshop with an area of **31,000** square meters.

1 LISEC intelligent production system for glass processing.

4 world advanced insulating glass production lines with an annual output of 1.2 million square meters.



3 world advanced laminated glass production lines, the longest can produce **13** meters of laminated glass.

5 world advanced flat bending steel furnace, steel three silver, double silver glass products.

400 employees, including management, technical team, quality controlling and service team.



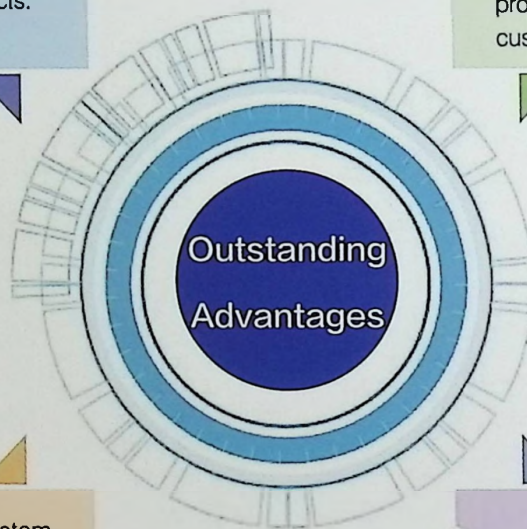
LiSEC

INTELLIGENT GLASS DEEP PROCESSING SYSTEM

Shandong Yaohua invested the LiSEC intelligent glass processing systems, including fully automatic loading and unloading system, edge grinding, storage, molecular sieve filling, coating and inflatable butyl applicator, fully realize the intelligent optimization of production process, guarantee the stability of product quality and delivery time. Both the quality and outlooking of insulated glass reached the international advanced level.

1 Automatic intelligent insulating glass production platform, bring customers with higher quality insulating glass products, better enhance the value of products.

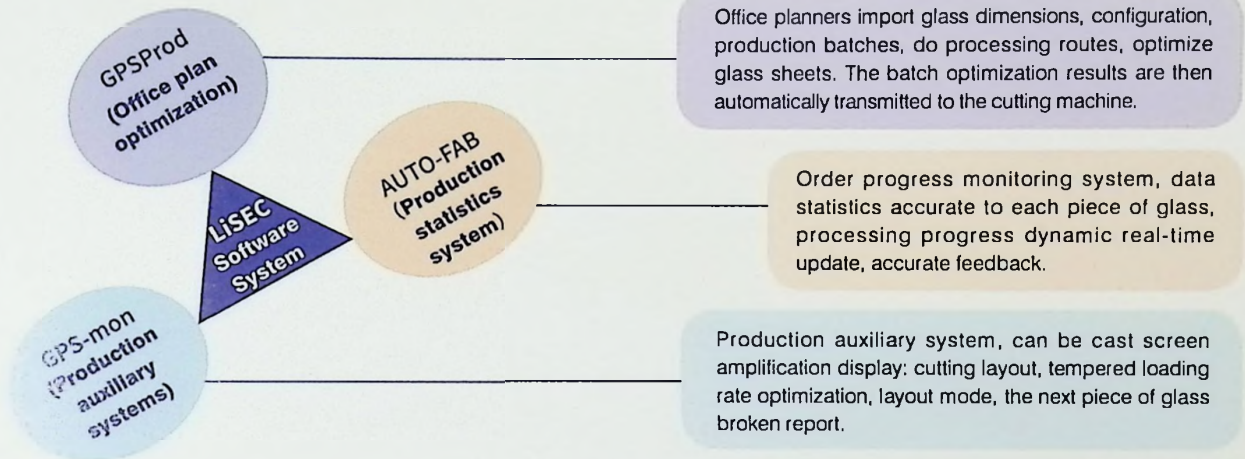
3 Intelligent production planning, overall planning and optimization of production process. Achieve the maximum possible unmanned operation, resulting in higher production efficiency, more reliable customer delivery.



2 Automatic connection system, from cutting to IG line, glass will not fall to the ground, reducing glass scratch and damage, better improving product quality, and reducing manual risks and equipment errors.

4 One of the world's advanced whole process intelligent insulating glass production lines, bringing customers the honor of products.


Advanced Lisec Software System



AUTO-FAB Order processing progress monitoring

Monitor the entire process of product processing to bring the exclusive experience of intelligent production.

批次状态	释义	加工站	加工状态
PLAN	Plan (计划)	办公室 (Office)	Plan to batches
OPT	Optimize (优化)	办公室 (Office)	Optimization
SIM		办公室 (Office)	Select the cutting machine after optimization
LOAD	Load (装载)	切割 (Cut)	The batch loads to the cutting machine
CUT	Cut (切)	切割 (Cut)	Cutting
SORT	Sort (分类)	Buffer Entrance	Cut and enter to Buffer 1
CAR	Car (车)	Buffer	Stored in buffer
LIN1	磨边 1 线	Arrised Edge Machine	Arrised edge machine is produced in sequence
UNLOAD	unload (卸载)	Tempering Loading	Arrised glass came out of optimum tempering loading
LIN2	磨边 2 线	Edge Polished Machine	Grinding glass comes out in order of size from large to small
ASM2LIN1	Buffer2 一线	中空 (igu)	IGU came out of Buffer 2
READY	Ready (准备好的)	中空 (igu)	IGU finished
RDY-DD		中空 (igu)	IGU finished

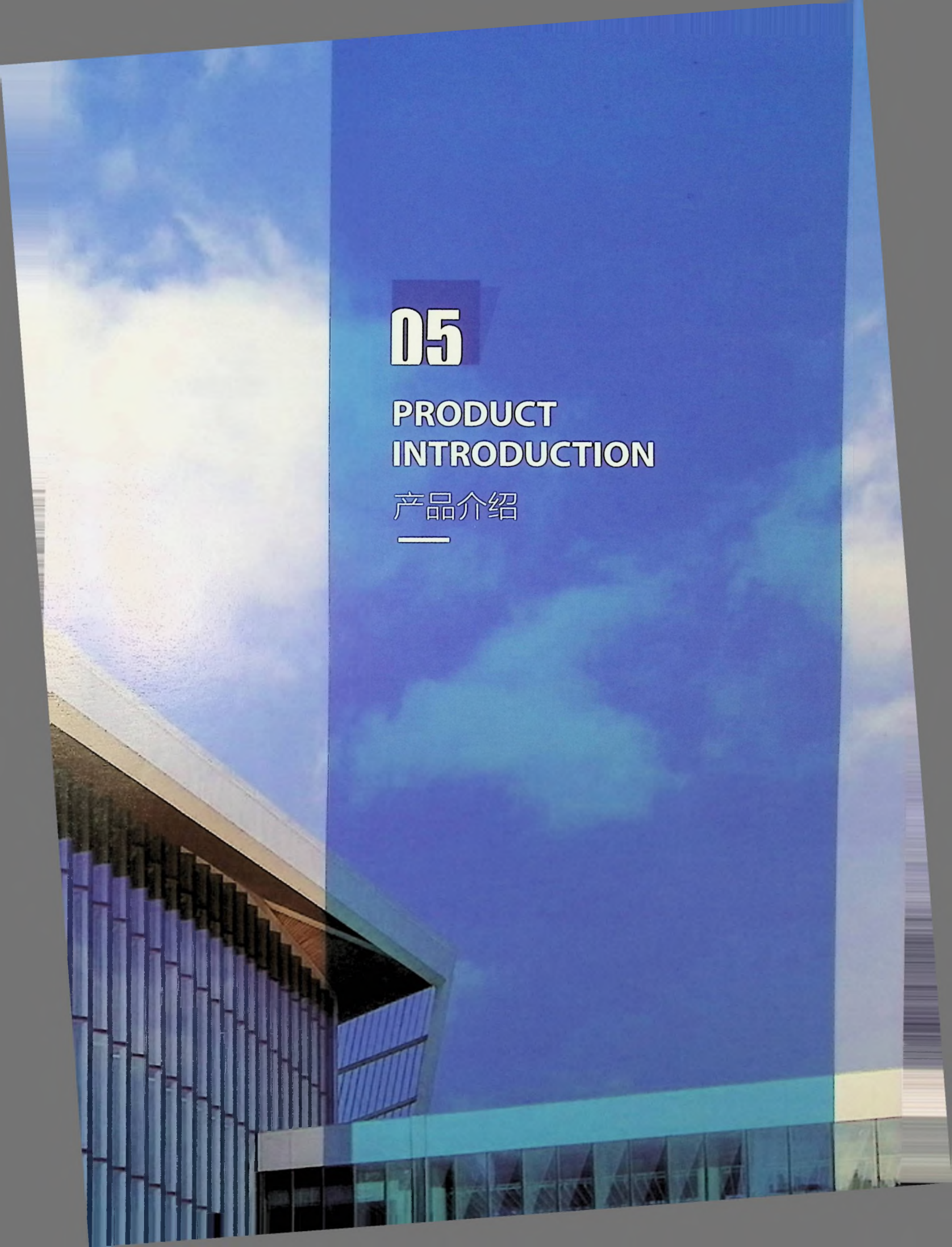


PURSUE SUPERIOR QUALITY
SERVE GLOBAL CUSTOMERS

追求卓越品质 服务全球客户

Project Case:

Qingdao Cruise Home Port



05

PRODUCT
INTRODUCTION

产品介绍

01

TEMPERED GLASS

The tempering of glass is to heat the glass to a temperature lower than the softening temperature, and then conduct uniform and rapid cooling. The outside of glass will be fixed due to rapid cooling, while the inside will continue to shrink, resulting in compressive stress on the surface of glass and tensile stress on the inside. To break the tempered glass, the internal stress must be offset first, so that the mechanical strength and thermal stability of the glass are improved.

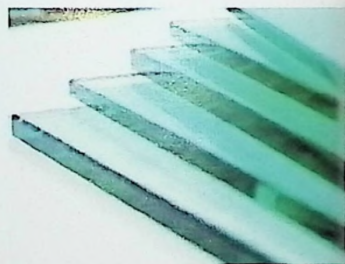
Shandong Yaohua Tempered Glass Features:

Safety, High Strength, Thermal Stability

Product Specification:	Flat Maximum Size: 3300×13000mm; Minimum size: 150×300mm;
	Curved maximum Size: 2500×2700mm Thickness 4~19mm;
	Curved maximum Size: 2500×2700mm
Thickness:	4~19mm
Production Lines:	2 Hangzhou Jinglass Tempered Furnace
	2 Glaston Tempered Furnace from Finland
	1 Taiwan Tongchang Tempered Furnace
Quality Standard:	AS/NZS2208, IGCC, ANSI, CE EN12150, GB 15763.1-2009 and internally controlled standard SDYH-ZY-PZ-03



Glaston Tempered Furnace



02

INSULATING
GLASS

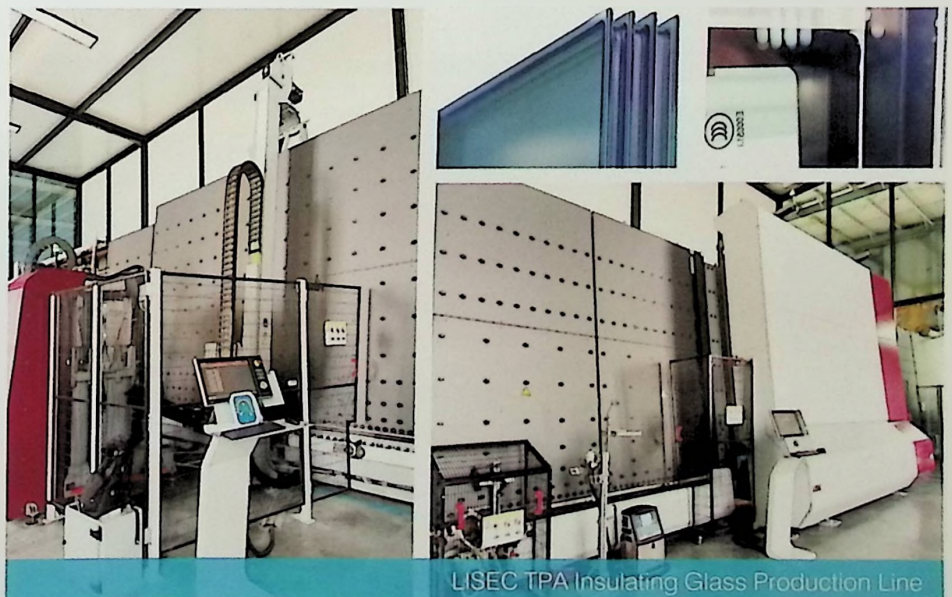
Insulating glass is a glass assembly composed of two or more pieces of glass, which are evenly separated by effective supports in the middle, and sealed with adhesive materials around the edges to form a dry gas space between the glass layers. Glass components can be selected from ordinary transparent glass, tinted glass, coated glass, laminated glass, tempered glass, etc. as required.

TPSS is short for THERMO PLASTIC SPACER SEALANT. TPSS is a new type of insulating glass warm-edge system, which uses special butyl rubber as auxiliary material and is filled with thermoplastic spacers of desiccant which can perfectly replace traditional aluminum spacers.

Characteristics of Shandong Yaohua TPSS insulating glass

1. Long-lasting seal: 2-3 times longer usage time than traditional insulating glass.
2. Impeccable appearance: No Butyl sealant overflow, No Desiccant leaks, Reduce glass edge deformation and improve curtain wall imaging.
3. Long-term Energy-saving: Minimal Argon gas loss, Protect the Low-E coating, Best U values, also for façade glass panes, Perfect acoustic performance.

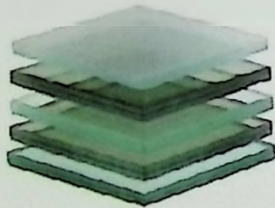
Product Specification:	Max Size: 4000×3000mm (TPSS IGU), 2700×5000mm(Aluminum IGU)
	Min Size: 350*200mm
Production Line :	1 Austrian LISEC TPA glass production line, 1 Austrian LISEC line, 2 Swiss Bystronic lines
Quality Standard :	China National Standard, IGCC, AS/ NZS2208 and SDYH internal control standard



LISEC TPA Insulating Glass Production Line

03

LAMINATED GLASS



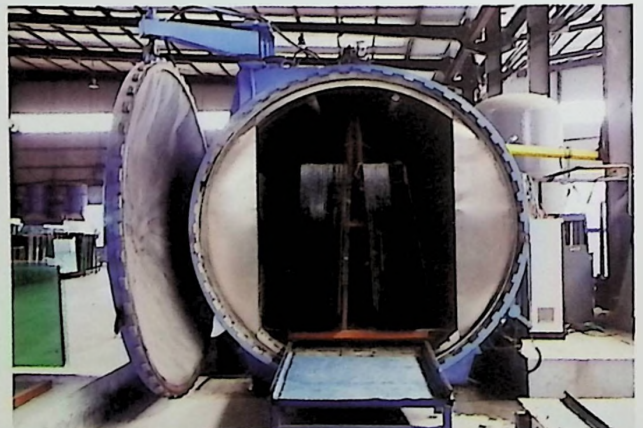
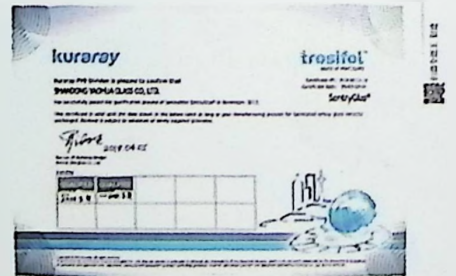
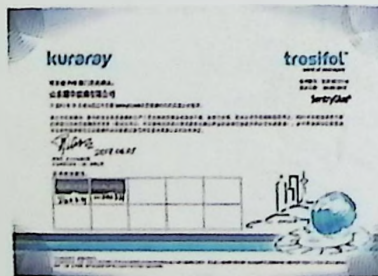
Laminated glass is sandwiched between the glass by PVB, SGP and other materials, by high temperature and high pressure processing. Laminated glass is a kind of safety glass, which is not easily broken, and even if the glass is broken, it can still maintain a relatively complete form.

Shandong Yaohua Laminated Glass Features

Safety; Impact Resistance; Light and Heat and Cold Resistant; Soundproof; UV Protection, etc.

Product specification:	Maximum Size: 3200×13000mm;
	Minimum Size: 300×300mm;
Thickness Range:	6~40mm
Production Line:	1 production line from Shenzhen Huacai
	1 production line from Shenzhen Handong
	1 production line from Qinhuangdao Lewei
Quality Standard:	AS/NZS2208, IGCC, ANSI, CE EN12150, GB/T 15763.1-2009, GB/T 15763.2-2009, GB 15763.3-2009, GB/T 15763.4-2009 and internally controlled standard SDYH-ZY-PZ-02

We are Kuraray SentryGlas (SGP) Lamination Glass Approved Processor



Laminated Glass Production Line

04

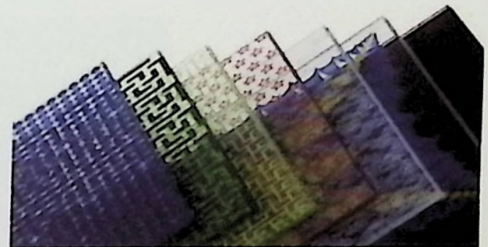
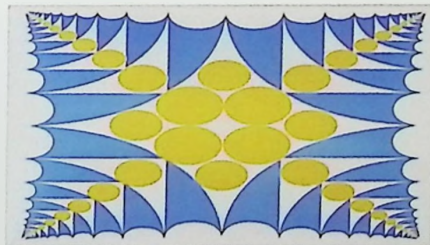
SILK SCREEN
PRINT GLASS

Silk Screen Printing Glass is the ceramic fritted glass through screen printing on screen plate, roller printing machine to print on the glass surface, and then after drying, heat treatment (toughened, or semi-toughened), the ink permanently sintered on the glass surface, and get a kind of acid and alkali resistance and high safety glass products and it is widely used in the architectural decorative industry.

Shandong Yaohua Silk Screen Printing Glass Features:

The glaze does not fall off and fade; Color and design diversity, more decorative; certain shading function and effect

Product specification:	Maximum Size: 2500×4900mm; Minimum Size: 400×400mm;
Thickness Range:	4~19mm
Production Line:	Tianjin Wenzhou
Quality Standard:	AS/NZS2208,IGCC,ANSI,CE EN12150,GB/T 15763.1-2009、GB 15763.2-2009、GB/T 15763.3-2009、GB/T 15763.4-2009、JC-T1006-2006 and internally controlled standard SDYH-ZY-PZ-01



Tianjin Wenzhou Silk Screen Glass Production Line

05

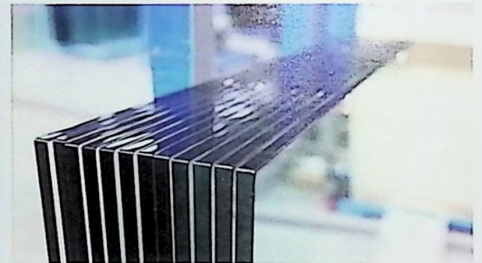
HEAT SOAKED GLASS

HST (heat soaked) tempered glass means that the tempered glass is placed in a heat soaked furnace, and the phase transition of nickel sulfide (NiS) in tempered glass is made through the process of heating, heat preservation and cooling, so that the stress inside the glass tends to balance, so as to greatly reduce the self-detonation rate of tempered glass.

Shandong Yaohua Heat Soaked Glass Features:

Safety; High Strength; Thermal Stability.

Product specification:	Maximum Size: 2500×12000mm;
Thickness:	4~19mm
Production Line:	Guangdong Ohm
Quality Standard:	AS/NZS2208,IGCC,ANSI,CE EN12150,JC-T1006-2006,GB 15763.2-2009,GB/T15763.4-2009 and internally controlled standard SDYH-ZY-PZ-01



Heat Soaked Glass Furnace

06

FIRE RESISTANCE GLASS

Fire-proof glass is a new functional materials which used in construction, with good light-transmission and fire retardant properties.

Shandong Yaohua Fire Resistance Glass Features:

High Strength, Strong Fire Resistance Performance, Easy Installing, High weatherability

Product specification:	Maximum Size: 3000×6000mm;
Thickness:	5–19mm
Production Line:	Glaston Tempering Furnace
Quality Standard:	AS/NZS2208, IGCC, ANSI, CE EN12150, GB 15763.1-2009, GB 15763.4-2009 and internally controlled standard SDYH-ZY-PZ-01



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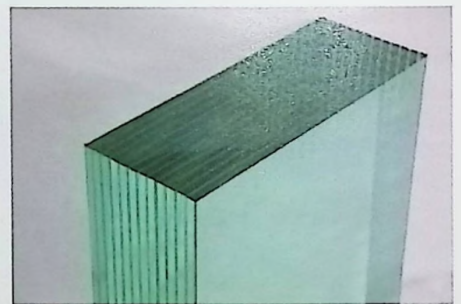
JUMBO SIZE GLASS

Shandong Yaohua has become one of the largest building glass production base in the north China, and is in the leading position of jumbo size construction glass market.

Shandong Yaohua Jumbo Size Glass Features:

1. Pressure resistance, resistance to impact, penetration resistance, excellent noise performance.
2. High mechanical strength
3. Energy - saving, safe and beautiful
4. Alternative metal beam column

Product specification:	Maximum Size: 3300×13500mm;
Thickness:	18~100mm
Production Line:	Glaston Tempering Furnace
Quality Standard:	AS/NZS2208,IGCC,ANSI,CE EN12150,GB 15763.2-2009,GB 15763.3-2009,GB 15763.4-2009 and internally controlled standard SDYH-ZY-PZ-01

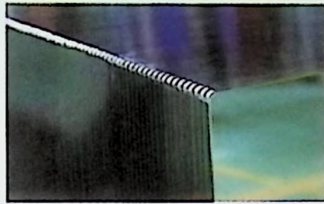


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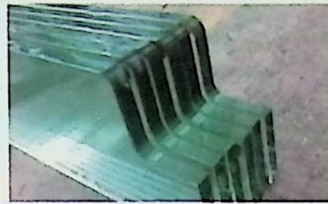
OVERSEAS STANDARD GLASS

Shandong Yaohua has Australia Certification, CE Certification, IGCC Certification, to meet the needs of overseas high-end glass.

Product Show



Safety Corner

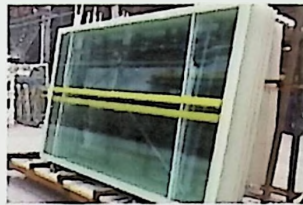


Edge Polished



Cutout by CNC

Export Glass Show



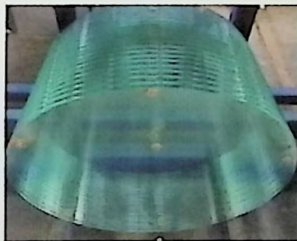
Silk Screen Glass to USA



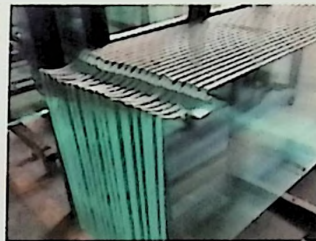
Insulated Glass to Canada



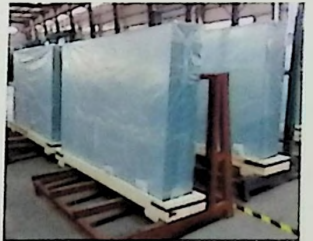
Tripple Laminated Glass



Heat Soaked Glass to Sough Korea



Heat Soaked Glass to Australia



4mm Extra Clear Tempered Glass to Spain

Loading



Jumbo Size Glass Packing



Packing



Loading



Full Container

LOW E INSULATED GLASS PARAMETERS

(单银 LOW E 中空玻璃参数)

结构 Structure	基片 Substrate	反射色 Color	可见光 (%) Visible Light		太阳光 (%) Solar Energy		太阳能得 热系数 SHGC	遮阳 系数 SC	传热系数 U Value W/ (m ² K) Air
			透射比 Transmittance	反射比 Reflectance	透射比 Transmittance	反射比 Reflectance			
6 SYG XETB150+12A+6C	CLR	Blue Grey 蓝灰	45	20	30	24	0.37	0.42	1.84
6 SYG XETB160+12A+6C	CLR	Blue Grey 蓝灰	53	18	35	22	0.42	0.48	1.85
6 SYG XETB170+12A+6C	CLR	Blue Grey 蓝灰	66	11	43	30	0.49	0.56	1.8
6 SYG XETG150+12A+6C	CLR	Silver Grey 银灰	44	30	26	31	0.31	0.31	1.77
6 SYG XETG160+12A+6C	CLR	灰 Grey	53	26	35	22	0.41	0.47	1.78
6 SYG XETN180+12A+6C	CLR	Neural 无色	73	11	49	19	0.55	0.63	1.84
6 SYG YBE180+12A+6C	CLR	Neural 无色	66	15	53	12	0.50	0.61	1.8
6 SYG YBE0152+12A+6C	CLR	Blue Grey 浅蓝灰	46	21	39	20	0.37	0.45	1.8
6 SYG YBE0140+12A+6C	CLR	Silver Grey 银灰	36	33	29	12	0.27	0.33	1.7
6 SYG optilite S1.16+12A+6C	CLR	Neural 无色	79	13	50	24	0.57	0.65	1.72
6 SYG PLE39E+12A+6C	CLR	Silver 银白	36	30	22	29	0.28	0.33	1.77
6 SYG PLE52D+12A+6C	CLR	Silver Grey 银灰	46	21	28	21	0.35	0.40	1.81
6 SYG PLE57C+12A+6C	CLR	Blue Grey 蓝灰	50	20	31	22	0.38	0.44	1.81
6 SYG PLE60C+12A+6C	CLR	Blue Grey 蓝灰	53	21	34	21	0.41	0.47	1.8
6 SYG PLE66C+12A+6C	CLR	Blue Grey 蓝灰	57	18	36	20	0.44	0.5	1.8
6 SYG PLE70A+12A+6C	CLR	Light Blue 浅蓝	60	12	38	15	0.46	0.53	1.83
6 SYG PLE80A+12A+6C	CLR	Light Blue 浅蓝	67	11	43	15	0.51	0.59	1.83
6 SYG PLE88A+12A+6C	CLR	Neural 无色	75	12	49	17	0.57	0.66	1.81
6 SYG optilite US1.16+12A+6UC	UC	Neural 无色	82	14	60	30	0.61	0.71	1.73
6 SYG XETB0060+12A+6UC	UC	Blue 蓝色	54	18			0.44	0.51	1.84
6 SYG XETN0080+12A+6UC	UC	Neural 无色	74	11			0.60	0.7	1.85

DOUBLE SILVER LOW E INSULATED GLASS PARAMETERS

(双银 LOW E 中空玻璃参数)

结构 Structure	基片 Substrate	反射色 Color	可见光 (%) Visible Light		太阳光 (%) Solar Energy		太阳能得 热系数 SHGC	遮阳 系数 SC	传热系数 U Value W/ (m ² .K) Air
			透射比 Transmittance	反射比 Reflectance	透射比 Transmittance	反射比 Reflectance			
6 SYG XDTG0148+12A+6C	CLR	Blue Grey 蓝灰	45	17			0.27	0.31	1.65
6 SYG XDTB0170+12A+6C	CLR	Blue 蓝色	63	14			0.33	0.38	1.64
6 SYG XDT170+12A+6C	CLR	Blue 蓝色	66	11	30	14	0.42	0.37	1.6
6 SYG PDE80A+12A+6C	CLR	Neural 无色	72	12	38	34	0.42	0.48	1.64
6 SYG PDE60B+12A+6C	CLR	Blue 蓝色	45	8	22	22	0.28	0.33	1.67
6 SYG PDE50D+12A+6C	CLR	Blue 蓝色	45	27	19	32	0.24	0.28	1.62
6 SYG XDTB0070+12A+6UC	UC	Blue 蓝色	65	15			0.34	0.39	1.65
6 SYG XDTG0048+12A+6UC	UC	Blue Grey 蓝灰	46	18			0.27	0.31	1.65
6 SYG optisolar UD80+12A+6UC	UC	Neural 无色	72	13	38	41	0.39	0.45	1.66
6 SYG optisolar UD70+12A+6UC	UC	Powder Blue 浅蓝灰	64	16	35	35	0.38	0.43	1.72
6 SYG optisolar UD57+12A+6UC	UC	Light Grey 浅灰	53	15	26	42	0.29	0.34	1.69
6 SYG optisolar UD49+12A+6UC	UC	Blue Grey 蓝灰	47	15	23	44	0.26	0.3	1.69
6 SYG optisolar UD44+12A+6UC	UC	Silver Grey 银灰	41	26	18	52	0.21	0.24	1.68

TRIPPLE SILVER LOW E INSULATED GLASS

(三银 LOW E 中空)

结构 Structure	基片 Substrate	反射色 Color	可见光 (%) Visible Light		太阳光 (%) Solar Energy		太阳能得 热系数 SHGC	遮阳 系数 SC	传热系数 U Value W/ (m ² .K) Air
			透射比 Transmittance	反射比 Reflectance	透射比 Transmittance	反射比 Reflectance			
Thickness									
6 Solarban 72+12A+6UC	UC	灰 Grey	72	15	29	54	0.31	0.36	1.6
6 Solarban 70+12A+6C	CLR	灰 Grey	68	15	26	40	0.20	0.34	1.6

SOLAR REFLECTIVE INSULATED GLASS

(热反射镀膜中空)

结构 Structure	基片 Substrate	反射色 Color	可见光 (%) Visible Light		太阳光 (%) Solar Energy		太阳能得 热系数 SHGC	遮阳 系数 SC	传热系数 U Value W/ (m ² .K) Air
			透射比 Transmittance	反射比 Reflectance	透射比 Transmittance	反射比 Reflectance			
Thickness									
6mmSYG XTY150+12A+6C	CLR	灰 Grey	45	23	37	16	0.47	0.54	2.6
6mmSYG XTY165+12A+6C	CLR	浅灰 Light Grey	59	20	51	14	0.6	0.7	2.68

SUPER ENERGY-SAVING INSULATED GLASS

(超级节能中空玻璃)

结构 Structure	基片 Substrate	反射色 Color	可见光 (%) Visible Light 透射比 Transmittance	太阳能得热系数 SHGC	遮阳系数 SC	传热系数 U Value W/ (m ² .K)	
						Winter	Summer
Thickness							
5 S1.16+12Ar+5C+12Ar+5 S1.16	CLR	Neural 无色	73	0.5	0.57	0.78	0.82
5 D80+12Ar+5C+12Ar+5 S1.16	CLR	Neural 无色	64	0.35	0.4	0.77	0.81
5 Solarban70+12Ar+5C+12Ar+5 S1.16	CLR	灰 Grey	63	0.28	0.32	0.75	0.78

HARD COATED LOW E INSULATED GLASS PARAMETERS

(在线 LOW E 中空玻璃参数)

结构 Structure		可见光 (%) Visible Light		太阳光 (%) Solar Energy		太阳能得 热系数 SHGC	遮阳 系数 SC	传热系数 Uvalue/W (m ² K) = Air
Hard Coated Low E Glass	Thickness	透射比 Transmittance	反射比 Reflectance	透射比 Transmittance	反射比 Reflectance			
透明在线 Low E 中空玻璃	5 Clear Low E(2#)+9A+5C	73	17	57	14	64	0.74	2.1
	5 Clear Low E(2#)+12A+5C	73	17	57	14	64	0.74	1.9
	5 Clear Low E(2#)+15A+5C	73	17	57	14	64	0.74	1.9
	6 Clear Low E(2#)+12A+6C	73	16	55	14	63	0.73	1.9
	6 Clear Low E(2#)+15A+6C	73	16	55	14	63	0.73	1.9
	8 Clear Low E(2#)+12A+8C	71	16	50	13	60	0.70	1.9
	8 Clear Low E(2#)+15A+8C	71	16	50	13	60	0.70	1.9
	10 Clear Low E(2#)+12A+10C	70	16	47	13	58	0.67	1.9
	10 Clear Low E(2#)+15A+10C	70	16	47	13	58	0.67	1.9
	12 Clear Low E(2#)+12A+12C	68	16	44	12	57	0.65	1.8
12 Clear Low E(2#)+15A+12C	68	16	44	12	56	0.65	1.8	
阳光控制在线 Low E 中空玻璃	5 SYA Low E(2#)+9A+5C	64	13	45	12	53	0.61	2.2
	5 SYA Low E(2#)+12A+5C	64	13	45	12	53	0.60	2.0
	5 SYA Low E(2#)+15A+5C	64	13	45	12	52	0.60	2.0
	6 SYA Low E(2#)+12A+6C	63	13	43	12	52	0.60	2.0
	6 SYA Low E(2#)+15A+6C	63	13	43	12	52	0.59	2.0
	8 SYA Low E(2#)+12A+8C	62	12	40	11	50	0.57	2.0
	8 SYA Low E(2#)+15A+8C	62	12	40	11	50	0.57	2.0
	10 SYA Low E(2#)+12A+10C	60	12	37	11	48	0.55	2.0
10 SYA Low E(2#)+15A+10C	60	12	37	11	48	0.55	2.0	
高遮阳在线 Low E 中空玻璃	5 SY48 Low E(2#)+9A+5C	47	9	32	9	42	0.49	2.4
	5 SY48 Low E(2#)+12A+5C	47	9	32	9	42	0.48	2.2
	5 SY48 Low E(2#)+15A+5C	47	9	32	9	41	0.48	2.2
	6 SY48 Low E(2#)+9A+6C	47	9	31	9	42	0.48	2.4
	6 SY48 Low E(2#)+12A+6C	47	9	31	9	41	0.48	2.2
	6 SY48 Low E(2#)+15A+6C	47	9	31	9	41	0.47	2.2
	8 SY48 Low E(2#)+12A+8C	45	9	29	9	40	0.47	2.2
	8 SY48 Low E(2#)+15A+8C	45	9	29	9	40	0.46	2.2
	10 SY48 Low E(2#)+12A+10C	45	9	28	9	39	0.45	2.1
	10 SY48 Low E(2#)+15A+10C	45	9	28	9	39	0.45	2.1

HARD COATED LOW E LAMINATED GLASS PARAMETERS

(在线 LOW E 夹层玻璃参数)

结构 Structure		可见光 (%) Visible Light		太阳光 (%) Solar Energy		太阳能得 热系数 SHGC	遮阳 系数 SC	传热系数 U Value W/ (m2.K) Air
Hard Coated Low E Glass	Thickness	透射比 Transmittance	反射比 Reflectance	透射比 Transmittance	反射比 Reflectance			
透明在线 Low E 夹层玻璃 Clear Low E Laminated Glass	4C+0.76+4 Clear Low E(4#)	80	11	62	9	67	0.78	3.6
	4C+1.52+4 Clear Low E(4#)	79	11	60	9	66	0.76	3.5
	5C+0.76+5 Clear Low E(4#)	79	11	60	9	65	0.75	3.5
	5C+1.52+5 Clear Low E(4#)	78	11	58	8	64	0.74	3.5
	6C+0.76+6 Clear Low E(4#)	79	11	58	8	64	0.74	3.5
	6+1.52+6 Clear Low E(4#)	78	10	56	8	62	0.73	3.5
	8C+0.76+8 Clear Low E(4#)	77	10	53	8	60	0.72	3.5
	8C+1.52+8 Clear Low E(4#)	76	10	51	8	58	0.70	3.4
	10C+0.76+10 Clear Low E(4#)	75	10	49	7	56	0.69	3.4
	10C+1.52+10 Clear Low E(4#)	75	10	48	7	55	0.68	3.4
	12C+0.76+12 Clear Low E(4#)	75	10	47	7	54	0.68	3.3
	12C+1.52+12 Clear Low E(4#)	73	10	45	7	52	0.66	3.3
阳光控制在线 Low E 中空玻璃 Sunergy A Clear Low E Insulated Glass	5C+0.76+5 SYA Low E(4#)	69	8	47	8	57	0.63	3.8
	5C+1.52+5 SYA Low E(4#)	69	8	46	7	56	0.64	3.7
	6C+0.76+6 SYA Low E(4#)	68	8	46	7	56	0.64	3.7
	6C+1.52+6 SYA Low E(4#)	68	8	45	7	55	0.63	3.7
	8C+0.76+8 SYA Low E(4#)	67	8	42	7	55	0.61	3.7
	8C+1.52+8 SYA Low E(4#)	66	8	41	7	53	0.61	3.7
高遮阳在线 Low E 中空玻璃 Sunergy 48 Clear Low E Insulated Glass	10C+0.76+10 SYA Low E(4#)	65	8	39	7	51	0.59	3.7
	10C+1.52+10 SYA Low E(4#)	65	8	39	6	51	0.59	3.6
	5C+0.76+5 SY48 Low E(4#)	51	7	34	6	48	0.56	4.2
	5C+1.52+5 SY48 Low E(4#)	51	6	33	6	47	0.55	4.2
	6C+0.76+6 SY48 Low E(4#)	50	7	33	6	47	0.55	4.2
	6C+1.52+6 SY48 Low E(4#)	50	7	32	6	47	0.55	4.1
欧洲灰在线 Low E 中空玻璃 Euro Grey Low E Insulated Glass	8C+0.76+8 SY48 Low E(4#)	49	6	31	6	46	0.54	4.1
	8C+1.52+8 SY48 Low E(4#)	49	6	30	6	46	0.53	4.1
	10C+0.76+10 SY48 Low E(4#)	50	7	29	6	44	0.52	3.9
	10C+1.52+10 SY48 Low E(4#)	50	7	29	6	45	0.52	3.8
水晶灰在线 Low E 中空玻璃 Crystal Grey Low E Insulated Glass	5C+1.14+5 SGC Low E(4#)	46	7	45	7	48	0.52	3.4
	6C+1.52+6 SGC Low E(4#)	40	6	40	6	44	0.47	3.4
水晶灰在线 Low E 中空玻璃 Crystal Grey Low E Insulated Glass	5C+1.52+5mm SGE60 Low E(4#)	59	8	49	7	52	0.57	3.4
	6C+1.52+6mm SGE60 Low E(4#)	54	7	46	6	49	0.53	3.4
	8C+1.52+8mm SGE60 Low E(4#)	46	7	39	6	43	0.45	3.3

LAMINATED GLASS COMMON DATA

(普通夹层玻璃常用参数)

Product	Visible Light Transmittance %			Solar Energy		G value	SHGC	SC	U-Value	
	Transmittance	Reflectance Outside	Reflectance Inside	Transmittance	Reflectance				Summer	Winter
3C+0.38PVB+3C	89	8	8	79	7	0.8	0.83	0.96	5.19	5.75
3F-Green+0.38pvb+3C	81	7	7	55	6	0.64	0.67	0.77	5.19	5.75
6C+0.76PVB+6C	86	8	8	67	7	0.72	0.75	0.87	4.98	5.50
6F-Green+0.76pvb+6C	72	7	7	38	5	0.53	0.56	0.65	4.98	5.50
6Blue+0.76PVB+6C	63	6	6	43	5	0.56	0.60	0.69	4.98	5.50
5c+0.76pvb+5c	87	8	8	71	7	0.76	0.78	0.9	5.01	5.56

ANTI - REFLECTION GLASS PARAMETERS

(在线减反射镀膜参数比较)

结构 Structure	可见光 (%) Visible Light		太阳光 (%) Solar Energy		紫外线透射比 UV Transmittance %
	透射比 Transmittance	反射比 Reflectance	透射比 Transmittance	反射比 Reflectance	
6mm Clear	89	8	80	7	64
6mm Anti - Reflection (2#)	90	6	78	7	62
12C	86	8	72	7	54
6mm Clear+0.76PVB+6mm Clear	86	8	68	7	2
6mm Anti - Reflection(1#)+0.76PVB+6mm Anti - Reflection(4#)	89	2	66	4	1

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Project Case:
Jinan Henglong Plaza

06

PROJECT

精品工程

—



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▲ South Korea Starbucks



▲ Vanco Center



△ Zambia Lusaka International Airport



△ Japan Nikko Toshogu Shrine



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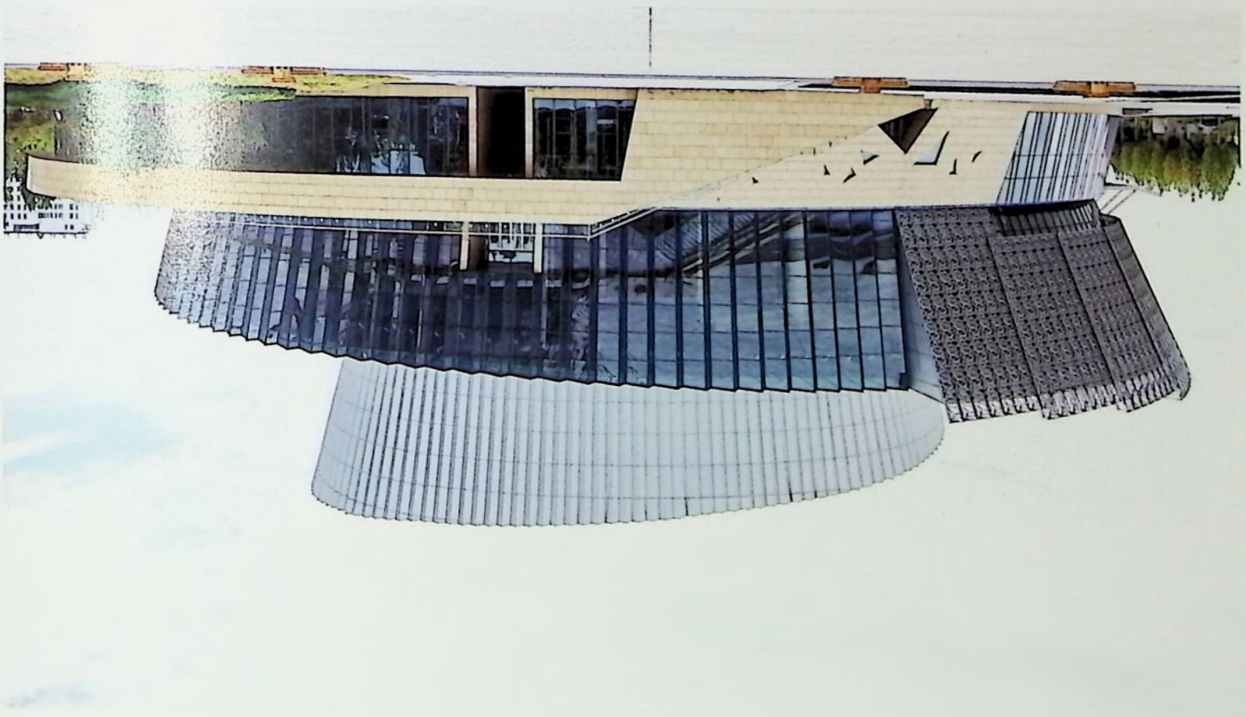
① | ②
③

1. Jinan Changqing Socialism Institute
2. Jinan Licheng Convenience Service Center
3. Shandong Public Art Center





▲ Linyi Tancheng Cultural and Sports Center



▲ Linyi Tancheng Cultural Plaza



▲ Jinan Changqing Incubator

▼ Dezhou Qihe Science Park



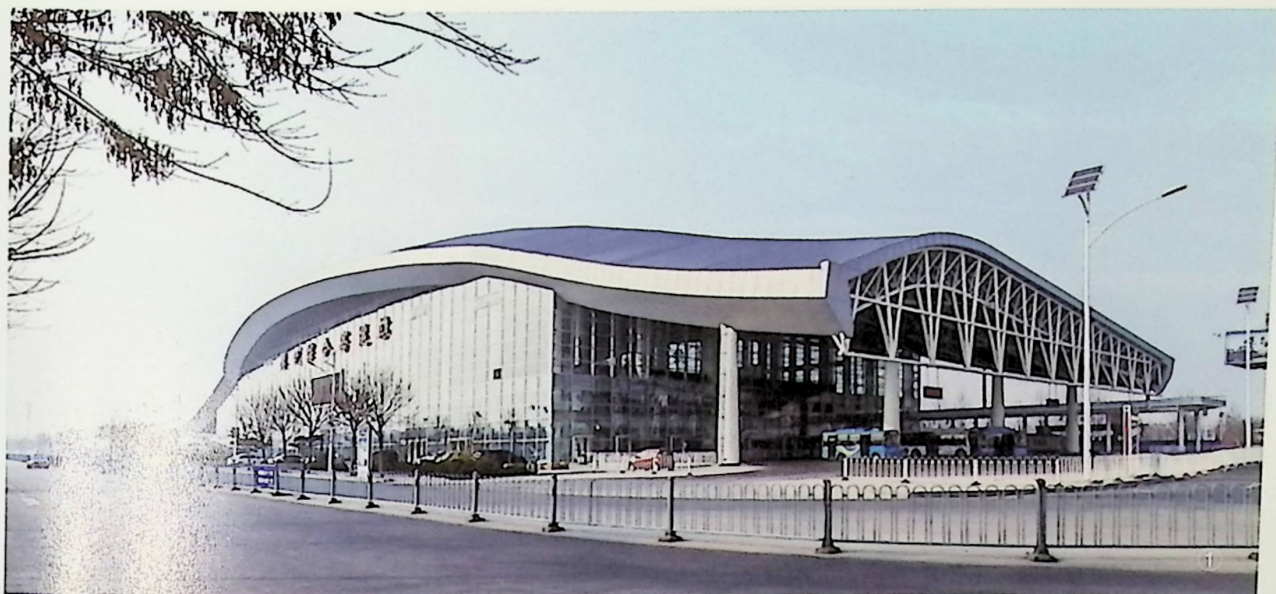


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▼ Shandong Industrial Base of Information and Communication Technology Innovation





- ① 1 Dezhou High Speed Rail Station
- ② 2 Jinan East Railway Station



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- | | |
|---|---|
| ① | ② |
| ③ | ④ |

- 1. Jinan Zhongjun Shangcheng
- 2. Weifang Wanda
- 3. Qingdao Wanke
- 4. Jinan Julong Plaza







①
②

③

1. Huangtai Commercial Plaza
2. Sangqing Prosper Center Tower
3. Jinan Express Golden Square



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▲ Linyi Zhaoshang Tower

▼ Jinan Shanneng Building





▲ Jinan Risesun International Plaza



- ① 1.Liaocheng Xinpengdu
- ② 2.Shijiazhuang Zhihui City Project&Office Building



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▲ Jinan Wanke

▼ Jinan Wanke





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▲ Jiman Aosheng Building



▲ Xincheng Apartment



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▼ Liangshan Mingshi City





2018-2020 YEAR PROJECT CASES

Project Case	Glass Combination	Project Sqm(m ²)
Jinan Julong Plaza	6mm Extra Clear Low E + 12A+6mm Extra Clear Tempered Insulated glass	20000
	15mm Clear/19mm Clear Fire Resistance Tempered Glass	15000
Jinan Risesun International Plaza	8mm Low E + 12A+6mm Clear Tempered Insulated glass	10000
	5mm Low E + 12A+5mm Clear Tempered Insulated glass	6000
	5mm Clear + 12A+5mm Clear Tempered Insulated glass	6000
Jinan Lingdian Logistics Port Building	6mm Low E + 12A+6mm Clear Tempered Insulated glass	12000
Liaocheng Gaotang Peoples Hospital	6mm Low E + 12A+6mm Clear Tempered Insulated glass	10000
	5mm Low E + 12A+5mm Clear Tempered Insulated glass	2000
Huabin Xinyuan	6mm Low E + 12A+6mm Clear Fire Resistance Tempered Insulated glass	10000
Changqing Incubator	6mm Low E + 12A+6mm Clear Tempered Insulated glass	10000
Jinan Huangtai Commercial Center	6mm Low E + 12A+6mm Clear Tempered Insulated glass	7000
	6mm Clear+1.14mm Grey PVB+6mm Clear Tempered Laminated Glass	4000
Jinan Wanhong Plaza	12mm Low E + 12A+12mm Clear Tempered Insulated glass	1300
	8mm Low E + 12A+8mm Clear Tempered Insulated glass	1500
	6mm Low E + 12A+6mm Clear Tempered Insulated glass	1800
	8mm Clear+1.52mm PVB+8mm Clear Tempered Laminated Glass	2000
	(8mm Clear+1.52+8mm Clear)+12A+8mm Low E Tempered Insulated glass	8000
Linyi Wuyue Plaza	6mm Low E + 12A+6mm Clear Tempered Insulated glass	2000
	8mm Low E + 12A+8mm Clear Tempered Insulated glass	2000
	6mm Clear Silk Screen+1.52mm Milk White+0.38mm Frost+6mm Clear Tempered Laminated Glass	2000
Jinan Capital Outlets	5mm Low E + 12A+5mm Clear Tempered Insulated glass	5000
	6mm Low E + 12A+6mm Clear Tempered Insulated glass	5000
	12mm Low E + 12A+12mm Clear Tempered Insulated glass	8000
	10mm Low E + 12A+10mm Clear Tempered Insulated glass	3000
Shijiazhuang Zhihui City roject&Office Building	5mm Clear+0.76mm PVB+5mm Clear Tempered Laminated Glass	25000
	8mm Low E + 16A+8mm Clear Tempered Insulated glass	30000
	12mm Clear/1.52mm PVB/10mm Clear Tempered Laminated Glass	1000
Rizhao Integrated building of civil air defense assets operation company	8mm Low E + 12Ar+8mm Clear Tempered Insulated glass	13000
Licheng Convenience Service Center	6mm Low E + 12A+6mm Clear Tempered Insulated glass	11000
Jinan Shanneng Building	6mm Double Silver Low E + 12A+6mm Clear Fire Resistance Tempered Insulated glass	40000
The Second Attachment Hospital of Shandong University of Traditional Chinese Medicine	8mm Extra Clear Double Silver Low E + 12A+8mm Clear Tempered Insulated glass 6mm Extra Clear Double Silver Low E + 12A+6mm Clear Tempered Insulated glass	20000
Green Land Shandong International Financial Centre	6mm Low E + 12A+6mm Clear Tempered Insulated glass 8mm Low E + 12A+8mm Clear Tempered Insulated glass	12000
Liangshan Mingshi City	5mm Low E + 15Ar+5mm Clear Tempered Insulated glass	150000
Blue Silicon Valley Hotel	8mm Low E + 12A+8mm Clear Tempered Insulated glass 8mm Low E + 12A+8mm Clear+12A+8mm Clear Fire Resistance Tempered Insulated glass	15000

Project Case	Glass Combination	Project Sqm(m ²)
Jinan East Railway Station	10mm Extra Clear Low E + 12Ar + 10mm Extra Clear + 12Ar + 10mm Extra Clear Tempered Insulated glass (6mm Extra Clear + 1.52 + 6mm Extra Clear) + 12Ar + (6mm Extra Clear Low E + 1.52 + 6mm Extra Clear) Tempered Insulated glass (6mm Extra Clear + 1.52PVB + 6mm Extra Clear Low E) + 12Ar + 6mm Extra Clear Tempered Insulated glass	10000
Jinan Cultural Relics and Archaeology Centre	6mm Low E + 12A + 6mm Clear Tempered Insulated glass	10000
Wangtai Commercial Plaza	6mm Low E + 12A + 6mm Clear Tempered Insulated glass	6000
Beijing Daxing International Airport	8mm Extra Clear + 1.52PVB + 8mm Extra Clear Fire Resistance Tempered Laminated Glass	3000
Sanqing Prosper Center Tower	6mm Low E + 12A + 6mm Clear Tempered Insulated glass 8mm Clear + 1.14PVB + 8mm Clear Tempered Laminated Glass	10000
Qingdao Wanke Project	12mm Extra Clear Low E + 12A + 12mm Extra Clear Tempered Insulated glass	6000
Qihe Zoo	15mm Extra Clear + 3.04PVB + 15mm Extra Clear + 3.04PVB + 15mm Extra Clear Flat&Curved Tempered Laminated Glass	2000
Jinan Shanneng Wisdom City Project	6mm Low E + 12A + 6mm Clear Tempered Insulated glass	5000
	8mm Low E + 12A + 6mm Clear Tempered Insulated glass	5000
	6mm Clear + 1.14PVB + 6mm Clear Tempered Laminated Glass	1500
Dongying Vocational College of Science and Technology	6mm Low E + 12A + 6mm Clear + 1.14PVB + 6mm Clear Tempered Laminated Insulated glass	10000
	6mm Clear + 1.14PVB + 6mm Clear Tempered Laminated Glass	2000
Jinan Express Golden Square	6mm Double Silver Low E + 12A + 6mm Clear Tempered Insulated glass	30000
	8mm Double Silver Low E + 1.52PVB + 8mm Clear Tempered Laminated Glass	1000
Jinan Infectious Diseases Hospital	5mm Low E + 12A + 5mm Clear Tempered Insulated glass	6000
Jinan Changqing Peoples Hospital	6mm Double Silver Low E + 12A + 6mm Clear Tempered Insulated glass	6000
	6mm Low E + 12A + 6mm Clear Tempered Insulated glass	5000
Jinan Zhongjun Shangcheng	5mm Low E Tempered Glass	5000
	6mm Low E Tempered Glass	1500
	5mm Low E + 12A + 5mm Clear Tempered Insulated glass	3000
	6mm Low E + 12A + 6mm Clear Tempered Insulated glass	5000
Shandong Industrial Base of Information and Communication Technology Innovation	8mm Low E + 12A + 8mm Clear Tempered Insulated glass	3000
	6mm Low E + 12A + 6mm Clear Tempered Insulated glass	18000
	6mm Low E + 12A + 6mm Clear Curved Tempered Insulated glass	1000
Changqing Qilu University of Technology Laboratory Building	6mm Low E + 12A + 6mm Clear Tempered Insulated glass	5000
	6mm Low E + 12A + 6mm Clear Tempered Insulated glass	10000
Liuzhiyuan Project	5mm Clear + 12A + 5mm Clear + 12A + 5mm Clear Fire Resistance Tempered Insulated glass	20000
The Second Attachment Hospital of Shandong University of Traditional Chinese Medicine	6mm Extra Clear Double Silver Low E + 12A + 6mm Clear Tempered Insulated glass	12000
	8mm Extra Clear Double Silver Low E + 12A + 8mm Clear Tempered Insulated glass	6000
Liaocheng Phoenix	6mm Extra Clear Low E + 12A + 6mm Clear + 12A + 6mm Clear Tempered Insulated glass	12000

1
International Communication
>



Glasstec Germany



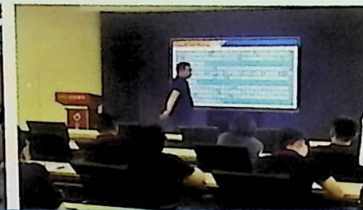
GlassBuild America



Glasstech Asia (Malaysia)



Study Days Training



Quality Control Training



Security Training

2
Learning and Training

3
Philanthropy
>



Educational Fund



Chung Yeung Festival Activities



Contribution Activities in Sep 5



Measure Body Temperature



Checking



Normal Work

4
During the outbreak
<

5
Reward >



Monthly Sales Incentive



Monthly Production Incentive



Annual Advanced Incentive



Tug of war Game



Singing Competition



Basketball Game

6
Cultural Activities
<



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