



# 青岛海森玻璃有限公司

QINGDAO HAISEN GLASS CO., LTD



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QINGDAO HAISEN GLASS CO., LTD

Add: Shagou Yingfang Industry Park, Wangtai Town,

Huangdao District, Qingdao, China

Tel: 0532-68973325 83168357

地址: 青岛市黄岛区黄山镇沙沟营房工业园



0532 68973325  
0532 83168357



[sales@haisenglass.com](mailto:sales@haisenglass.com)



[www.haisenglass.com](http://www.haisenglass.com)

PROFESSIONAL MANUFACTURER OF MIRROR, TEMPERED GLASS, LAMINATED GLASS AND INSULATED GLASS



# COMPANY PROFILE 公司简介

# MAIN PRODUCTS 主要产品

**Q**INGDAO HAISEN GLASS CO.,LTD is one of the Chinese leading independent glass and mirror manufacturers, founded in **2002**. At HAISEN Glass, strict quality management system is executed. Industry standard is applied at every stage of production, like sourcing of materials, production, inspection, package, transportation. Good quality and excellent customer service win us a good reputation in home and abroad glass mirror industry.

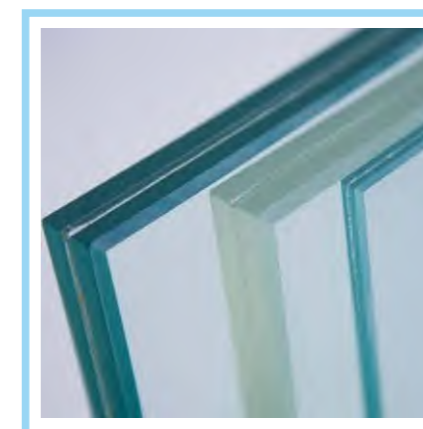
We mainly produce aluminium mirror, silver mirror, high safety tempered glass, laminated glass, tempered laminated glass and insulated glass etc. We also export clear and tinted float glass, reflective glass, and other customized glass. Nearly ninety percent of our glass are exported to North America, Latin America, East Europe, Middle East, South Asia, etc.

**青**岛海森玻璃有限公司是中国领先的玻璃和镜子制造商之一，公司成立于2002年。公司有严格的质量管理体系，生产的每个阶段都执行严格的行业标准，例如原材料的采购，生产，检验，包装，运输等。优良的品质和售后服务是我们的发展基石，为海森玻璃在国内外赢得了良好声誉。

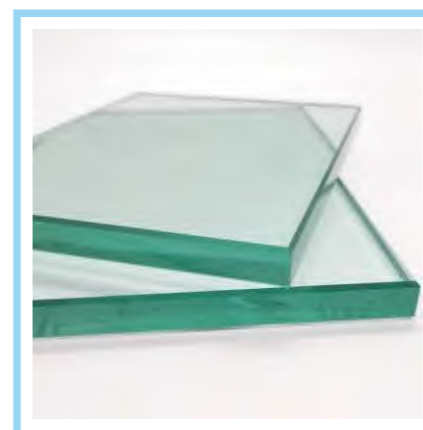
公司主要生产铝镜，银镜，高安全性钢化玻璃，夹层玻璃，钢化夹层玻璃和中空玻璃等。公司还出口透明和有色浮法玻璃，镀膜玻璃以及其他定制玻璃。公司超过90%的玻璃和镜子出口到北美，拉丁美洲，东欧，中东，南亚等。



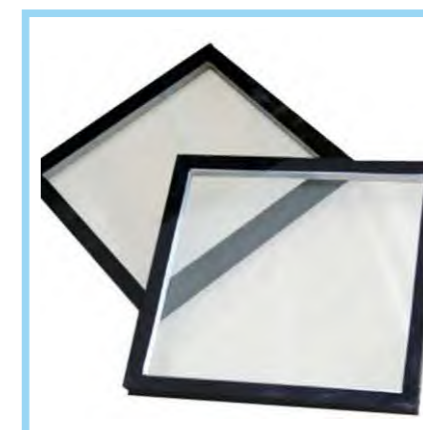
MIRROR GLASS 镜子



LAMINATED GLASS 夹胶玻璃



TEMPERED GLASS 钢化玻璃



INSULATED GLASS 中空玻璃



## ALUMINUM MIRROR 铝镜

ALUMINUM MIRROR is a kind of functional glass, which is produced through triple processing work by cleaning, aluminum deposition, and two layers of waterproof paints on the surface of quality float glass. using state-of-the-art technology called Vacuum Magnetron Sputtering technology. HAISEN new fully automated process replaces the older vacuum sealed chambers. The new process enhances the internal properties and brings the quality to a level that is extremely close to silver mirror, but with much lower prices than silver mirror.

铝镜是一种装饰性玻璃，它是通过在优质浮法玻璃表面上进行清洗，镀铝和涂漆三重加工工艺制成。海森铝镜采用最先进的真空磁控溅射技，这个全新的自动化技术取代了旧式的真空密封腔室。全新的生产技术提高了镜子的性能参数，并使质量达到了与银镜极为接近的水平，但价格却比银镜低得多。

### FEATURES:

- ▶ Copper and lead free, environment friendly
- ▶ High reflectivity with clear and vivid image
- ▶ Two layers of lead-free waterproof paints, perfect resistance to corrosion, enduring longer
- ▶ Competitive prices
- ▶ Various colors are available, like bronze, grey, blue, etc
- ▶ Safety backed mirror both CAT-I and CAT-II are available

### 优势:

- ▶ 无铜，无铅，环保
- ▶ 高反射率，图像清晰逼真
- ▶ 两层无铅防水涂料，完美的耐腐蚀性能，使用寿命更长
- ▶ 具有竞争力的价格
- ▶ 有多种颜色可供选择，例如茶色，灰色，蓝色等
- ▶ 可供CAT-I和CAT-II安全镜子



## SILVER MIRROR 银镜

SILVER MIRROR is a kind of functional glass, which is produced through a multiple processing work by cleaning, sensitized, silver coated, copper coated and twice waterproof paints coated on the surface of quality float glass. It is widely applied in various industries, like furniture, crafts, decoration, optical, auto rear view, etc.

银镜是一种装饰玻璃，是在优质浮法玻璃的表面上进行清洁，增感，镀银，镀铜和两次涂漆而成。它被广泛应用于各种行业，例如家具，工艺品，装饰，光学领域，和汽车后视镜等。

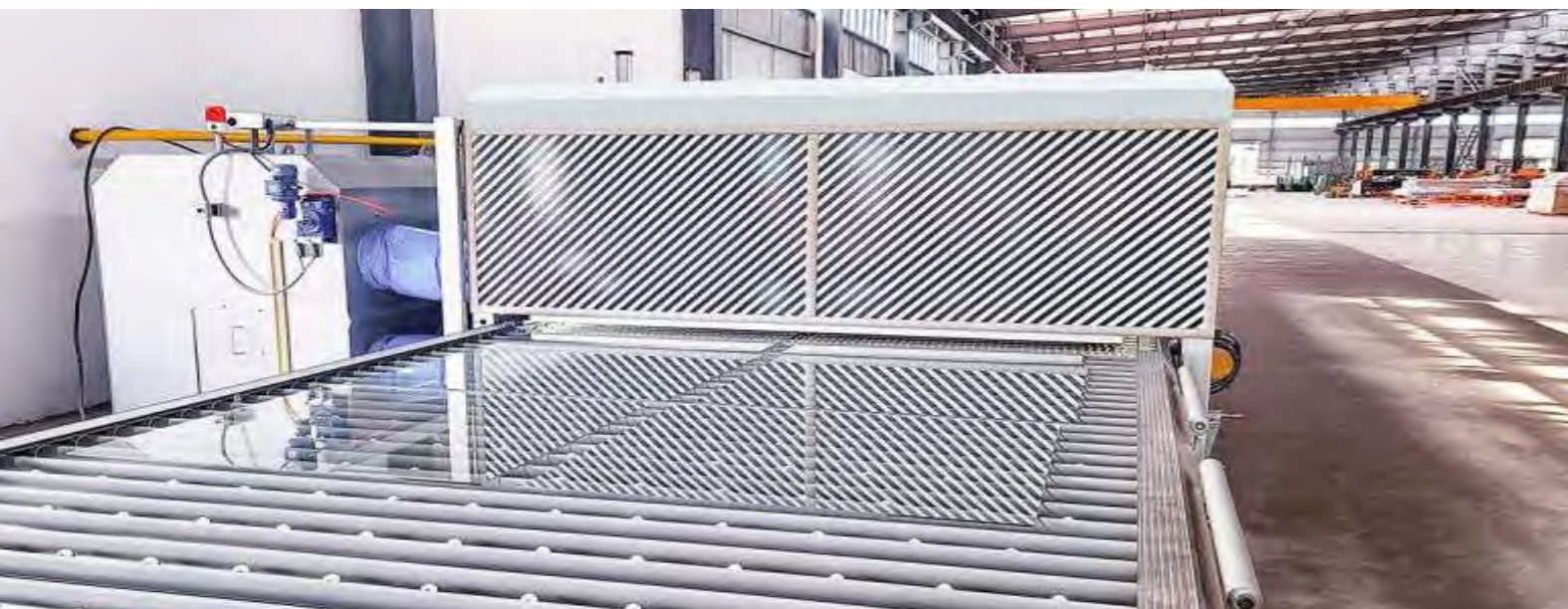
### FEATURES:

- ▶ High reflectivity with clear and vivid image
- ▶ Two layers of Italy FENZI paints, perfect resistance to corrosion, enduring longer
- ▶ Applied in various luxury conditions
- ▶ Various colors are available, like bronze, grey, blue, etc
- ▶ Safety backed mirror both CAT-I and CAT-II are available.

### 优势:

- ▶ 高反射率，图像清晰逼真
- ▶ 两层意大利FENZI涂料，完美的耐腐蚀性能，使用寿命更长
- ▶ 适用于各种豪华环境
- ▶ 有多种颜色可供选择，例如茶色，灰色，蓝色等
- ▶ 可以提供安全镜子，如CAT-I和CAT-II均可

SIZE (more sizes available)	1830MM X 1220MM	2134MM X 3660MM	914MM X 1220MM
	1830MM X 2440MM	2440MM X 3660MM	1500MM X 2000MM
	1830MM X 2134MM	2134MM X 3300MM	1524MM X 2134MM
	2250MM X 3300MM	1605MM X 2750MM	1605MM X 2750MM



## TEMPERED GLASS 钢化玻璃

Tempered glass has flat tempered and curved tempered, which are widely used in high-rise building doors and windows, glass curtain walls, indoor partition glass, Light shed sightseeing elevator passage, furniture, glass guardrail, etc. According to different uses, tempered glass can be divided into fully tempered glass, Semi-tempered glass.

钢化玻璃有平钢化 and 弯钢化, 广泛应用于高层建筑门窗、玻璃幕墙、室内隔断玻璃、光棚观光电梯通道、家具、玻璃护栏等。根据用途不同, 钢化玻璃又可分为全钢化玻璃, 半钢化玻璃。

### FEATURES/优势:

1. Safety: When the glass is damaged by external force, the fragments will become small obtuse-angled particles similar to honeycombs, which are not easy to cause harm to the human body.

安全性: 当玻璃被外力破坏时, 碎片会成类似蜂窝状的碎小钝角颗粒, 不易对人体造成伤害。

2. High strength: the impact strength of tempered glass is 3 to 5 times that of ordinary glass, and the anti bending strength is 3 to 5 times that of ordinary glass.

高强度: 同等厚度的钢化玻璃抗冲击强度是普通玻璃的3~5倍, 抗弯强度是普通玻璃的3~5倍。

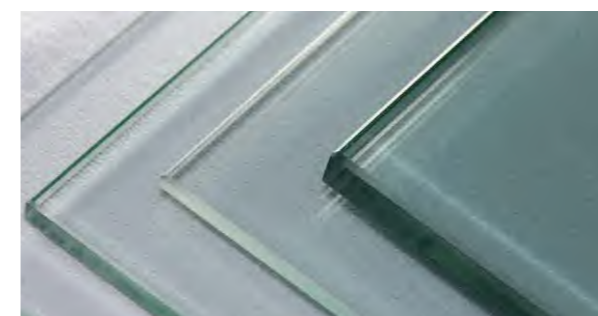
3. Thermal stability: Tempered glass has good thermal stability, can withstand a temperature of 3 times that of ordinary glass, and can withstand a temperature difference of 200° C.

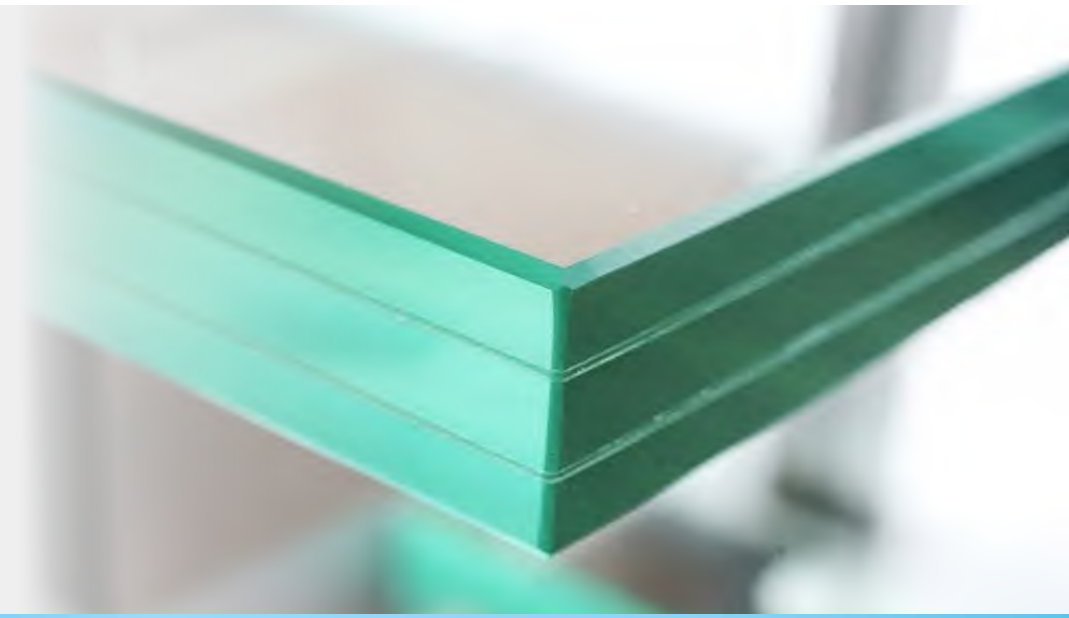
热稳定性: 钢化玻璃具有良好的热稳定性, 能承受的温差是普通玻璃的3倍, 可承受200℃的温差变化。

## TEMPERED GLASS 钢化玻璃

### TEMPERED GLASS/规格参数:

ITEM类别	THICK.(MM) 加工厚度(MM)	MAX. SIZE 最大规格(MM)	MIN.SIZE 最小规格 (MM)	REMARKS 备注
Flat tempered glass 平钢化	4 ~ 19	2700*4200	300*300	Thick above 10MM maximum size can produce 10MM以上厚板最大可生产: 2700*8400MM
Curved tempered glass 弯钢化	5 ~ 12	2700*1800 (Arch Length 弧长)	500*600 (Arch Length弧长)	Minimum radius of bending tempered 弯钢最小半径: 900MM





## LAMINATED GLASS 夹胶玻璃

Laminated glass is produced by laminating one or more layers of organic resin inter-layer between two or more pieces of glass at high temperature and pressure. According to different types of inter-layer, laminated glass can be made into products of different characteristics. Its application should be correctly selected based on the requirements.

夹层玻璃是由两片或多片玻璃，之间夹了一层或者多层有机聚合物中间膜，经过、特殊的高温预压（或抽真空）及高温高压工艺处理好，使玻璃和中间膜永久粘为一体的复合玻璃产品。

### APPLICATIONS/应用：

External use of glass walls, windows, doors, Shop fronts.

外用玻璃墙, 窗户, 门, 店面。

In offices, houses and shops etc.

用在办公室, 房屋和商店等中。

Interior glass screens, partitions, glass railings, glass fences and glass balustrade etc.

用在室内玻璃屏风, 隔断, 玻璃栏杆, 玻璃围栏和玻璃栏杆等。

Showcases, display shelves, shop display windows.

用于展示柜, 展示架, 商店展示橱窗。

Furniture, table tops, glass covers, etc.

用于家具, 桌面, 玻璃罩等。

## LAMINATED GLASS 夹胶玻璃

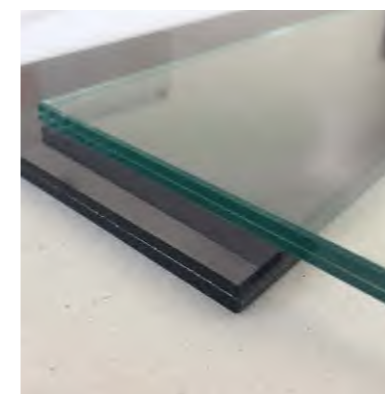
### SPECIFICATIONS/规格参数：

Glass color: Clear, Extra Clear, F-Green, Dark Green, Ford Blue, Dark Blue, Bronze, Euro Grey, etc.  
玻璃颜色：透明, 超透明, F-绿色, 深绿色, 福特蓝, 深蓝, 古铜, 欧洲灰等

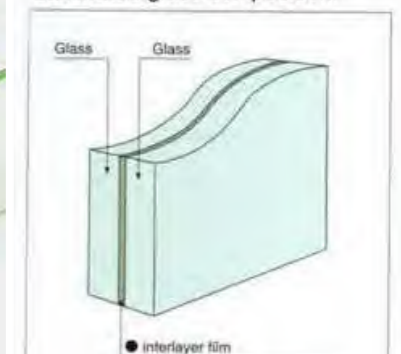
Glass thickness 玻璃厚度: 2+0.38PVB+2mm, 3+0.38PVB+3mm, 4+0.38PVB+4mm, 5+0.38PVB+5mm, 6+0.76PVB+6mm, 8+1.52PVB+8mm, 10+1.52PVB+10mm etc.

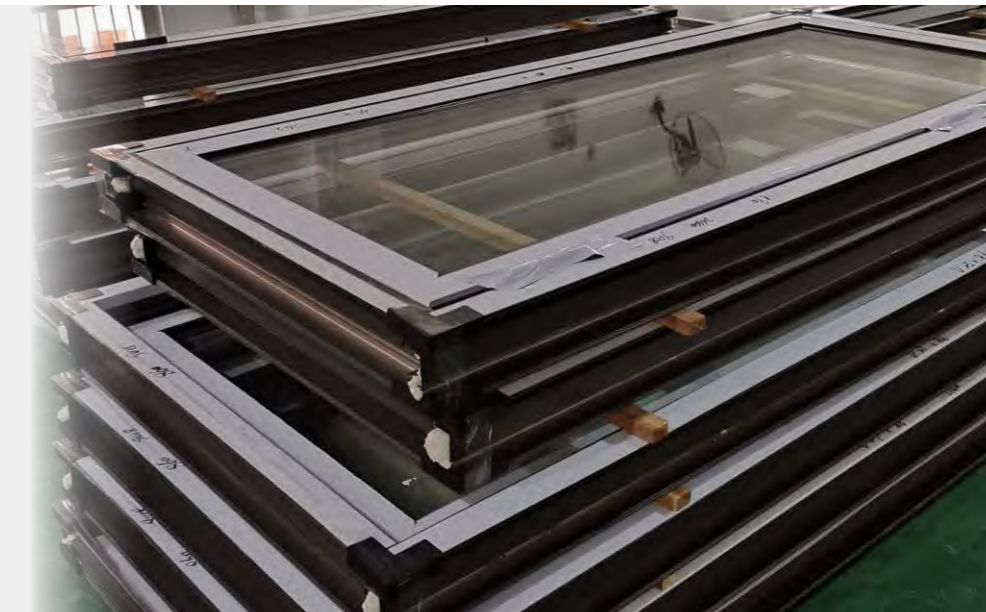
PVB Film PVB选择: 0.38mm, 0.76mm, 1.14mm, 1.52mm, 1.9mm etc.

Size: 1830\*1220mm, 1830\*2440mm, 2140\*3300mm, 2140\*3660mm, 2250\*3210mm, 2440\*3660mm



Laminated glass composition:





# INSULATED GLASS 中空玻璃

# INSULATED GLASS 中空玻璃

Insulating glass consists of two or more pieces of glass uniformly separated by desiccant filled aluminium spacer and the edge is sealed with high strength sealant. It is suitable for office buildings, exhibition rooms, libraries and other public facilities and special buildings that require constant temperature and humidity such as computer rooms, precision instrument workshops, and chemical factories. In addition, it can also be used for sun protection and anti-dazzling places.

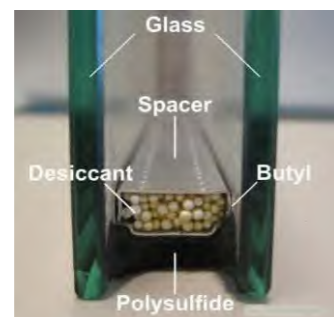
中空玻璃是将两片或多片玻璃以有效支撑均匀隔开并周边粘结密封，使玻璃层间形成有干燥气体空间的玻璃制品。主要材料是玻璃、暖边间隔条、弯角栓、丁基橡胶、聚硫胶、干燥剂。适用于办公大楼、展览室、图书馆等公共设施和像计算机房、精密仪器车间、化工厂等要求恒温恒湿的特殊建筑物。另外也可以用于防晒和防夕照目眩的地方。

## FEATURES/特性：

- Heat Preservation:** excellent thermal insulation, more effective to reduce heat loss in winter  
保温：优异的隔热性能，有效减少冬天的热量损失。
- Sound Resistance:** provide good sound resistance up to 30 dB or more.  
隔音：增加高达30dB或更高的声阻，通过填充特定的气体可以进一步提高隔音性
- Prevent condensation:** the insulating glass cavity is filled with dry air at a dew point lower than -40° C, so as to prevent condensation due to the temperature difference between indoor and outdoor.  
防止结露：中空玻璃腔充满干燥空气露点低于-40° C，以防止由于室内外温差造成的结露。
- Aesthetic:** insulating glass can incorporate reflective glass, laminated glass, ceramic frit glass and other glass types which gives good aesthetic effects  
美观：中空玻璃可以结合镀膜玻璃，夹胶玻璃，陶瓷玻璃和其它类型的玻璃，使其具备更好的视觉审美效果。

## SPECIFICATIONS/规格尺寸：

ITEM类别	THICK.(MM) 加工厚度 (MM)	MAX. SIZE 最大规格 (MM)	MIN.SIZE 最小规格 (MM)	ALU.SPACER 铝条间隔规格	REMARKS 备注
Float insulated glass 浮法中空玻璃/ Tempered insulated glass 钢化中空玻璃/ Reflective insulated glass 镀膜中空玻璃/ LOW-E insulated glass LOW-E中空玻璃	12 ~ 75	3500*2500	450*300	9A,12A,16A 等	Can provide ordinary single-cavity, three-glass and two-cavity with special-shaped, three-side-sized pieces of hollow glass; we can produce warm-edge striped hollow glass;可生产普通单腔、三玻两腔及异形、三边大小片中空玻璃；可生产暖边条中空玻璃。



# GLASS & MIRROR DEEP PROCESSING

## 玻璃&镜子深加工

HAISEN do different kinds of edge works on glass and mirror, Cut large sheet glass and mirror into many sizes and shapes, can do grinding edge, beveling edges and flat polished edges etc.

海森在玻璃和镜子上做各种边缘处理，将大的平板玻璃和镜子切成许多尺寸和形状，进行简单粗磨边，磨斜边和直边抛光等。



Glass Fine grinding and polishing (FE+P)

精磨抛光玻璃 (FE+P)

Maximum fine grinding size: 4200\*2500MM

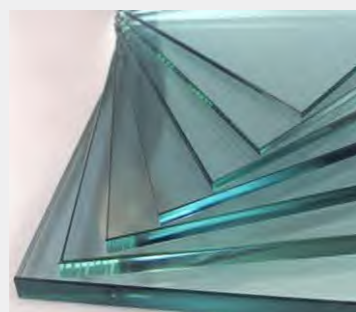
最大精磨尺寸: 4200\*2500MM

Minimum fine grinding size: 300\*300MM

最小精磨尺寸: 300\*300MM

Thickness: 3~25MM

可磨玻璃厚度: 3~25MM



# PAINTED GLASS

## 烤漆玻璃

is a kind of decorative glass that has been painted on one side so that the color shows through, it can be used in many places, and has been successfully used for wall panels, tabletops, counter tops, cabinet doors, partitions and tub and shower surrounds. Black, red and white are available. Main Colors: Black\White\Red

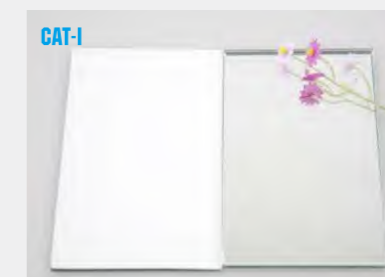
烤漆玻璃是一种装饰性玻璃，是在玻璃一侧进行了涂漆，使颜色得以透过。可以在许多地方使用，比如墙板，桌面，台面，橱柜门，隔板和浴缸和淋浴间。主要颜色黑色，红色和白色可供选择。



# SAFETY MIRROR 贴膜镜子

Safety mirror is produced by attaching an adhesive PE film (vinyl film) or Woven Fabric Films on the back of mirror, also named CAT-1 mirror and CAT-11 mirror, the film prevent People from being hurt in case of mirror breaking.

安全镜是通过在镜背粘贴PE膜（乙烯基膜）或编织带膜制成的镜，也称为CAT-1镜子和CAT-11镜子，在镜子破裂的情况下胶膜会使人免受伤害。



### SPECIFICATIONS/规格参数:

Films: PE film/woven fabric Film PE膜/编织带膜

Color of film: white/black/clear

胶片颜色: 白色/黑色/透明

CAT-1 thickness: 7 μm-15 μm CAT-1厚度: 7 μm-15 μm

CAT-11 thickness: 13 μm-30 μm CAT-11厚度: 13 μm-30 μm

Max. size: 1830\*2440mm 最大尺寸: 1830 \* 2440mm



# PACKING AND LOADING

There are 3 kinds of cases for packing : wood crates ,plywood end-caps,customized.  
 In the packing ,there is paper inter-layer between sheets of mirror ,plastic film hold all the mirrors,metal strips are used to consolidate the cases.  
 Our staffs have over 10 years' loading experience,they use common and long arm forklift to load cases into containers,fixings are done for safe shipment.loading is done indoor,to guarantee successful loading in terrible weather conditions.

包装箱有3种：木箱，胶合板,客户要求。  
 包装方式，玻璃之间夹纸，塑料膜包裹，金属条加固。  
 我们的员工拥有超过10年的装载经验，他们使用普通的长臂叉车将箱子装载到集装箱中，进行各种加固，确保安全运输。装柜在室内完成了，以防恶劣的天气条件影响装柜和产品。

**WAREHOUSE**



**PACKING 1**



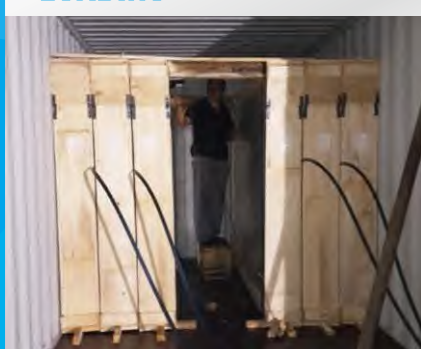
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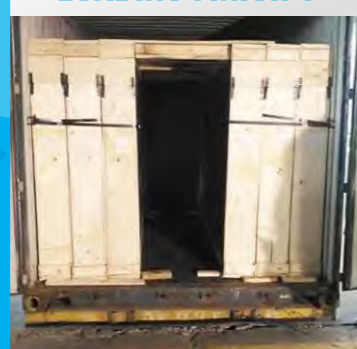
**PACKING 2**



**LOADING**



**LOADING FINISH 1**



**LOADING FINISH 2**



# CERTIFICATE

