

**AEON GLASS**  
FLOAT GLASS & PROCESSED  
Ideal Glass Solution

**AEON GLASS**

Address: 61 Haier Road, Qingdao, China  
Tel: 0086-0532-55576229  
Email: [sales@aeonglass.com](mailto:sales@aeonglass.com)  
Web: [www.aeonglass.com](http://www.aeonglass.com)

AEON Industries Corporation Limited

# Contents

- P1 Introduction
- P2 Clear Float Glass
- P3 Low Iron Glass
- P4 Tinted Glass
- P5 Reflective Glass
- P6 Low Emissivity Glass
- P7 Laminated Glass
- P8 Tempered Glass
- P9 Lacquered Glass and Acid Etched Glass
- P10 Silver Mirror
- P11 Aluminum Mirror
- P12 Copper Free and Lead Free Mirror
- P13 Safety Mirror and Beveled Mirror
- P14 Clear Patterned Glass
- P15 Clear Patterned Glass Pictures
- P16 Colored Patterned Glass and Wired Glass
- P17 Colored Patterned Glass and Wired Glass Pictures
- P18 Glass Chemical Composition and Manufacturing Process
- P19 Glass Manufacturing Equipments and Machines
- P20 Glass Package and Loading
- P21 CE Certificate

**AEON GLASS** - AEON Industries Corporation Ltd is a professional flat glass manufacturer and exporter in China. We are dedicated to provide advanced glass solution to building facades, home decorations, automotive industry and solar industry etc.

Concentrating on high quality flat glass, AEON Glass has become the leading company in the China glass industry. Now we can supply a comprehensive range of products including clear float glass, low iron glass, tinted glass, reflective glass, low emissivity glass, silver mirror, aluminum mirror, copper free and lead free mirror, safety mirror, solar mirror, beveled mirror, laminated glass, tempered glass, acid etched glass, lacquered glass, louvre glass, clear patterned glass, colored patterned glass, ultra clear patterned glass, wired glass, sheet glass, automotive glass, solar glass, etc.



After 10 years sustained development, we have exported our glass to more than 90 countries worldwide. Our dedicated team of experienced sales professionals provides the essential support and after sales service necessary to ensure that all customer requirements are met promptly and efficiently.

### AEON GLASS Competitive Advantages:

- 15 years experience on glass manufacturing and exporting.
- Top quality glass with CE certificate, exporting to more than 90 countries worldwide.
- Unique designed solid wooden cases, solving the problems of breakage.
- Dockside warehouses beside three of China main container seaports, ensuring convenient loading and rapid delivery.
- Full range of flat glass supply, offering one-stop purchase.
- Professional sales team, offering personalized and dedicated services.



### CLEAR FLOAT GLASS - Clarity , Quality and Consistency

AEON Clear Float Glass is made by high-quality sand, natural ores and chemical materials by mixing them and melting them at high temperature. The molten glass flow into tin bath where the float glass is spread, polished and formed on the molten tin. The float glass has smooth surface, excellent optical performance, stable chemical capability, and high mechanism intensity. It is also resistant to acid, alkali and corrosion.

AEON Clear Float Glass gives a striking visual effect and meets the increasing demands for light in today's workplace. It creates more attractive interiors with a greater feeling of space. In both homes and the workplace, the clear float glass offers a practical stylish alternative to traditional materials in screens, partitions and furniture. It creates attractive modern environments that are also economical and easy to maintain.

#### FEATURES:

- High light transmittance, excellent optical performance.
- Smooth and flat surface, visible flaw is controlled strictly
- Easily to be cut, insulated, acid-etched, lacquered, tempered and coated.
- Thickness available from 0.8mm to 22mm

#### APPLICATION:

AEON Clear Float Glass can be used in a wide range of applications, from interior furniture to all-glass structural facades

- Windows, doors and facades on various buildings
- Interior applications for furniture or decorations
- Mirror making
- Automotive window shields
- Instruments

#### STANDARD:

China GB11614-2009, Europe EN 572, and Russia GOST 111-2001.

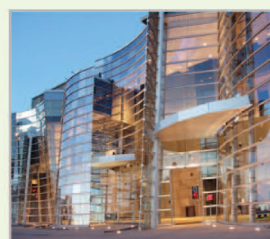
#### SPECIFICATION:

Normal Thickness: 3mm, 4mm, 5mm, 5.5mm, 6mm, 8mm, 10mm, 12mm

Ultra Thin: 0.8mm, 1.0mm, 1.3mm, 1.5mm 1.8mm and 2mm, etc.

Ultra Thick: 15mm, 19mm, 22mm

Sizes: 1524x2134mm, 1220x1830mm, 1650x2140mm, 1830x2440mm, 2134x3300mm, 2250x3300mm, 2440x3300mm, 2140x3660mm, 2440x3660mm, etc. can be produced according to client's request.



### LOW IRON GLASS - Pure , Sparking and Ultra Clear

AEON Low Iron Glass is a kind of plate glass with highly clear, highly transmissive, highly smooth. And it is a new type of deeply processed glass, also it is a new type advanced structural glass with environment protection. The glass is a lower iron float glass and be made by a special process. It is not like the clear float glass to sight like green, it looks just like colorless crystal, highly transmissive and terrific.

We have found that reducing the iron and using a new raw materials formula increases light transmission and reduces the greenish tint in clear glass that is most apparent when viewed from the edge. The Low Iron Glass can be cut, holed and side-rubbed, and also can be tempered, laminated, heat bent and so on. Besides it also can be coated, printed and figured on the surface.

#### FEATURES:

- Excellent clarity ensures true colors are seen and optimum vision quality is achieved when looking through the glass.
- Offers a high level of light transmittance.
- Creates maximum light inside rooms due to the products high level of transparency.
- Particularly beneficial for thicker laminated products, affording a high level of transparency.
- The edges of the glass remain white, unlike other glass making it ideal for use in furniture.

#### APPLICATION:

AEON Low Iron Glass is a glass that is designed for applications where its unique appearance and optical qualities are of particular advantage such as:

- Display cabinets
- Shelves
- Glass furniture
- Table tops, bars and desk tops
- Shower screens
- Solar energy industries

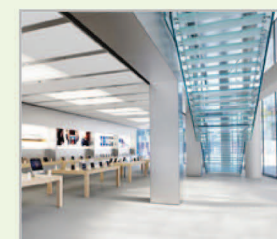
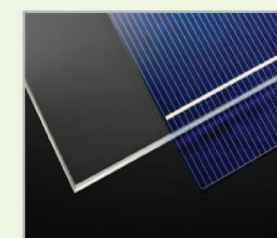
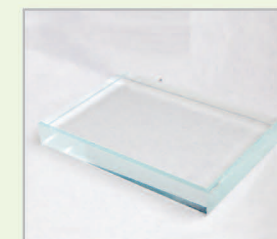
#### STANDARD:

China GB11614-2009, Europe EN 572, and Russia GOST 111-2001.

#### SPECIFICATION:

Thickness: 3mm, 3.2mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm, 15mm, 19mm, etc.

Sizes: 1830x2440mm, 2134x3300mm, 2134x3660mm, 2250x3300mm, 2250x3660mm, 2440x3660mm, etc. maximum 3660x8000mm



### TINTED GLASS - Colorful, Quality and Consistency

AEON Body Tinted Glass is produced by the float process with the addition of small quantities of metal oxides to color the normal clear glass mix. This coloration is achieved through adding metal oxides at the smelting stage. Addition of color does not affect the basic properties of the glass, even though visible light reflectance will be slightly higher than clear glass.

AEON Tinted Glass reduces solar transmittance by absorbing a large proportion of the solar energy the majority of which is control and energy reduction. AEON GLASS has strict tolerances on its colored glass and ensures through precise quality control that the tinted glass it makes is the same within a batch and across batches - year after year. Our range of vibrant colors, excellent performance characteristics and post-production treatment possibilities, all make AEON tinted glass the ideal choice for architects in any new construction or renovation project.

#### FEATURES:

- The body tinted float glass can reduce transmission of the sun's harmful rays by up to 80% thus minimizing fading to interior furnishings.
- The comprehensive range of soft natural colors compliments and harmonizes with modern building materials to provide an exciting and different look to new or existing buildings.
- Could be easily cut, bent, insulated, laminated, lacquered, coated, tempered or heat strengthened and in addition can be silk-screened.

#### APPLICATION:

AEON Tinted Glass is intended for universal applications where an attractive appearance or basic solar control properties are required:

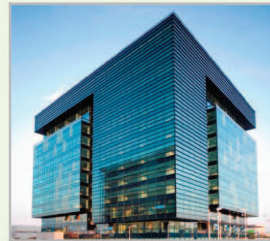
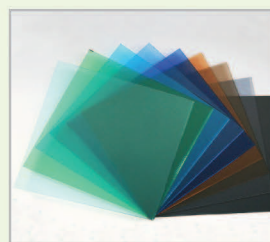
- Commercial and civil buildings.
- Interior decoration and show windows.
- Automotive window shield

#### STANDARDS:

China GB/T 18701-2002, Europe EN 572 part 2 1995

#### SPECIFICATION:

Colors: Bronze, Dark Bronze, Euro Grey, Blue Grey, Dark Grey, French Green, Dark Green, Ford Blue, Dark Blue, Ocean Blue, Pink, etc.  
 Thickness: 3mm, 4mm, 5mm, 5.5mm, 6mm, 8mm, 10mm and 12mm, etc.  
 Sizes: 1524x2134mm, 1650x2140 mm, 2140x3300mm, 2250x3210mm, 2250x3300mm, 2440x3300mm and 2140x3660mm, etc.



### REFLECTIVE GLASS- High Performance Solar Control Glass

AEON On-line Coated Reflective Glass is a solar control glass that has been carefully designed to meet the twin requirements of architects - the functional and the aesthetic. It is produced by using CVD technology ( chemical vapor deposition ) that creates a perfect uniform layer of metal oxide chemically bonded to the surface of the glass. The coating imparts a " mirror-like " façade to the Reflective Glass, giving it visual appeal while providing functional benefits like solar control and glare reduction. As this hard chemical layer is fully bonded to the glass, the glass can be cut, bent, tempered, heat strengthened and laminated without affecting the coating.

AEON Reflective Glass is available in a range of performances to meet most environmental requirements in terms of solar control, thermal comfort and energy conservation. It is an exterior glass which is manufactured to meet the most exacting standards in order to deliver high performance with ease in processing.

#### FEATURES:

- Solar Control: This glass reflects a large proportion of the solar radiation, thereby restricting the heat gain inside the building.
- Superior Visual Comfort: Reflects away the right quantum of daylight so as to limit glare, while allowing adequate amount of natural light.
- Superior durability: High wear and superior scratch resistance.
- Ease in processing: It can be processed like normal float glass

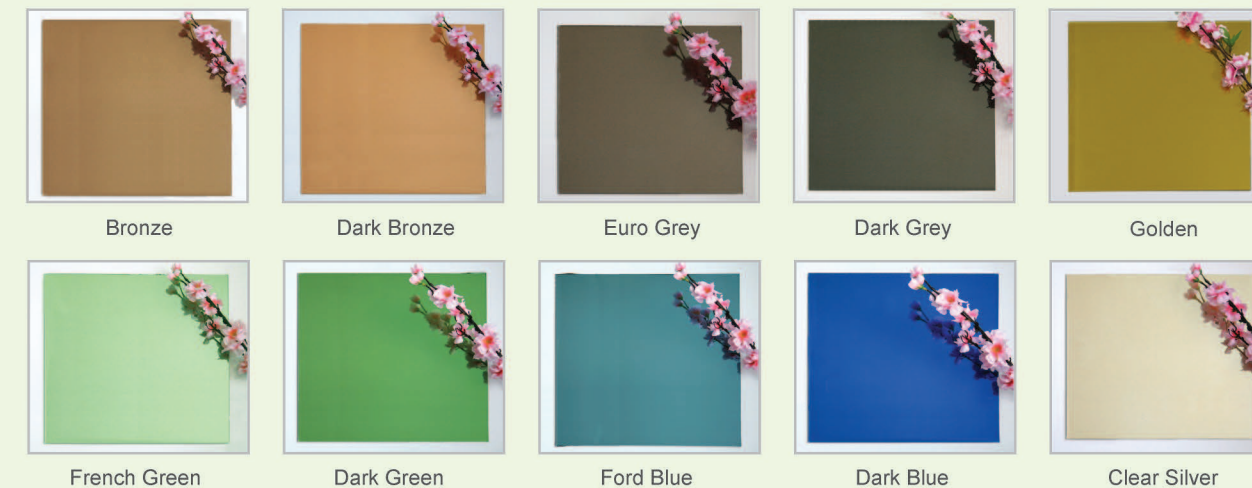
#### APPLICATION:

AEON Reflective Glass is suitable for most types of facade glazing in buildings. It is used widely in small/ large areas where reduction of solar heat is required to keep the interiors cool. Its attractive appearance also enhances the interior of a building.

- Offices
- Commercial buildings
- Schools
- Industrial buildings
- Apartment blocks

#### SPECIFICATION:

Colors: Bronze, Dark Bronze, Euro Grey, Mist Grey, Dark Grey, French Green, Dark Green, Ford Blue, Dark Blue, Pink, Golden, Silver, etc.  
 Thickness: 3mm, 4mm, 5mm, 5.5mm, 6mm, 8mm and 10mm, etc.  
 Sizes: 1524x2134mm, 1650x2140mm, 2140x3210mm, 2134x3300mm, 2250x3210mm, 2250x3300mm, etc.



### LOW EMISSIVITY GLASS - An Energy-efficient Glass

AEON Low Emissivity Glass is a member of the coated glass family coated with one or more layers of metal or compound films on the quality float glass by using magnetic sputtering method. It has low thermal conductivity and high light transmittance, ensuring visible light transmittance and reducing light pollution based on prevention of heat losses.

Online LOW-E Coated Glass is a new-type energy efficient glass features in high reflectivity of far infrared heat radiation. Online LOW-E coated glass is produced by pyrolyzing coating material continuously under high temperature through CVD and MOCVD coating technology so as to deposit them on glass substrate surface moving inside a tin bath and black-out furnace. As the glass is coated online continuously under high temperature without extra heating, cleaning or drying process, it can be manufactured in large scale with low cost.

Off-line LOW-E Coated Glass is a highly efficient energy saving product obtained through the use of the Magnetron Sputter Vacuum Deposition (MSVD) method where multiple layers of metal or nonmetal coats are applied on the surface of a top quality float glass substrate.

#### FEATURES:

- High efficiency in energy saving and environment production.
- Wonderful performance in visible light transmission.
- Stable chemical performance.
- Stable performance in thermal processing.
- Stable mechanical performance for solid coat, high abrasion and scratch resistance.

#### APPLICATION:

AEON Low Emissivity Glass's primary application is wherever there is a need for enhanced thermal insulation and it achieves optimum performance from double glazing. It is widely used in facade glazing, windows double glazing, commercial buildings, gymnasiums and schools, etc.

#### STANDARDS:

CHINA GB/T18915.1-2002; UK BS6206:1981; USA ANSIZ97.1; AUS AS/NIS 2208-1996

#### SPECIFICATION:

Thickness: 4mm, 5mm, 6mm, 8mm and 10mm  
 Sizes: 1830x2440mm, 2134x3300mm, 2250x3300mm, 2440x3300mm, etc.  
 Colors: Clear, Blue, Green, Bronze and Grey, etc.  
 Coating Types: Online Hard Coating and Offline Soft Coating  
 Offline Low-E Glass Types: Single silver high transmittance, Single silver high shading, and Double silver, etc.



### LAMINATED GLASS - Safety and Security

AEON Laminated Glass is made by good quality adhesive interlayer and advanced bond technology. Laminated Glass is a kind of glass made of two or more sheets of top quality glass bonded together with a polyvinylbutyral (PVB) interlayer. After the PVB interlayer has been placed between the glass sheets, the whole assembly is subjected to heat and pressure. This makes the complete adhesion of the vinyl and the glass. In the event of breakage, the glass fragments remain bonded to the plastic interlayer.

AEON Laminated Glass provides many solutions for the protection of people. If broken, the glass remains bonded to a plastic sheet and is less likely to cause injury to people or property. The PVB sheet also makes penetration more difficult.

#### FEATURES:

- Extremely high safety: The PVB interlayer withstands penetration from impact. Even if the glass cracks, splinters will adhere to the interlayer and not scatter. In comparison with other kinds of glass, laminated glass has much higher strength to resist shock, burglary, burst and bullets.
- Energy-saving building materials: PVB interlayer impedes the transmission of solar heat and reduces cooling loads.
- Create aesthetic sense to buildings: Laminated glass with a tinted interlayer will beautify the buildings and harmonize their appearances with surrounding views which meet the demand of architects.
- Sound control: PVB interlayer is an effective absorber of sound.
- Ultraviolet screening: The interlayer filters out ultraviolet rays and prevents the furniture and curtains from fading effect

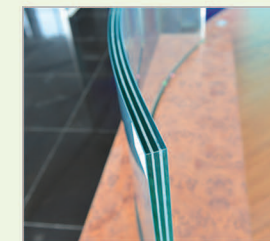
#### APPLICATION:

AEON Laminated Glass is widely used in areas where a safety glass is needed.

- Sloped/Overhead Glazing
- Museums, Prisons, Government Buildings
- Jewelry Stores, Banks, Airports
- Safety Glazing Applications
- Schools, Hospitals, Hotels
- Interior Partitions, Office Buildings

#### SPECIFICATION:

PVB Color: Clear, Green, Blue, Bronze, Grey, Milk White, etc.  
 Glass Color: Clear, Extra Clear, French Green, Dark Green, Ford Blue, Dark Blue, Bronze, Euro Grey, etc. available with Reflective Glass also.  
 Thickness: 3+0.38+3mm, 4+0.38+4mm, 5+0.38+5mm, 6+0.38+6mm, 3+0.76+3mm, 4+0.76+4mm, 5+0.76+5mm, 6+0.76+6mm etc, could be produced as per request.  
 Sizes: 1830x2440mm, 2140x3300mm, 2250x3300mm, etc. max. 3300\*15000mm, could be produced as per request.



### TEMPERED GLASS - Toughened and Strengthened for Safety

AEON Tempered Glass is made by heating flat glass to just below its softening temperature ( 650°C ) and suddenly chilling it with jets of cold air. It results in the outer skins under powerful compressive stress and the interior with severe tensile stress. In consequence, the impact applied to the glass will be overcome by the compressive stress on the surfaces to assure safety of use. It is ideal for areas with high wind loads and areas where human contacts are an important consideration.

AEON Tempered Glass is the perfect option for architects who must meeting building codes and safety requirements. Guaranteeing quality, AEON GLASS applies heat soak testing to all of its tempered glass before packaging and loading. It is available in all of our standard float thicknesses and sizes.

#### FEATURES:

- 5 times harder than ordinary float glass, stronger resistance to thermal breakage than annealed or heat strengthened glass.
- Once breakage occurs, the glass disintegrates into small cubical fragments, which are relatively harmless to human body.
- It withstands abrupt temperature change of 220 Centigrade.
- Sizes are produced as per customer request. Once tempered, it can not be cut down.

#### APPLICATION:

AEON Tempered Glass can avoid potential cuts and injuries as a result of broken glass.

- All doors (sliding, swing, etc. ).
- Windows (side, stair and bathroom etc)
- Handrails and Spiral Staircases
- Shower Enclosures
- Partitions and Elevator Enclosures
- Curtain Walls and Storefronts
- Automotive window shields

#### STANDARDS:

China GB15763.2-2005 and 9963—1998; Europe EN 12600: 2002, 16 CFR 1201; America ASTM C1048; UK BS 6206: 1995

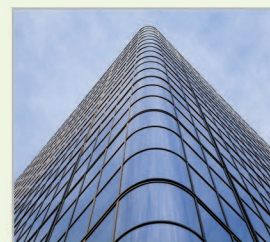
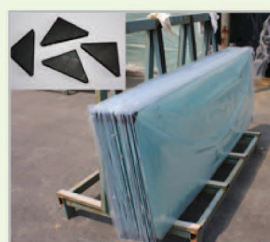
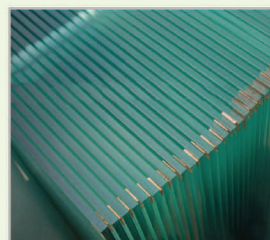
#### SPECIFICATION:

Glass Types: Float Glass, Patterned Glass

Glass Colors: Clear, Extra Clear, Bronze, Grey, Blue and Green, etc.

Thickness: 3mm, 3.2mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm, 15mm and 19mm, etc.

Sizes: customer-made max. 3300\*15000mm



### LACQUERED GLASS - Colorful and Durable

AEON Lacquered Glass ( Painted glass ) is made by the top quality clear float or ultra clear float glass, through depositing a highly durable and resistant lacquer onto the flat and smooth surface of the glass, then by carefully baking into the furnace which is constant temperature, permanently bonding the lacquer onto the glass. Lacquered Glass has all the features of the original float glass, but also supplies wonderful opaque and colorful decorative application.

#### FEATURES:

- Contemporary colors – AEON Lacquered Glass comprises 12 different colors. There are five light shades available, contrasting with four bold colors and one intense black
- Resistance-AEON Lacquered Glass has a special resistance to humidity making it ideal for use in high humidity rooms such as kitchens and bathrooms etc.
- Durability - As the paint is applied to the back of the glass, it is protected from damage, ensuring durability.
- The brilliance of the colors within the range is far superior to gloss paints when trying to achieve a stunning affect.

#### SPECIFICATION:

Paint Colors: White, Black, Green, Blue, Blue Green, Grey, etc.

Glass Colors: Clear and Extra Clear Float Glass

Thickness: 4mm, 5mm, 5.5mm, 6mm, 8mm, 10mm, 12mm, etc.

Sizes: 1830x2440mm, 2134x3300mm, 2250x3300mm, 2134x3660mm, etc.



### ACID ETCHED GLASS - With an Attractive Smooth and Silky Surface

AEON Acid Etched Glass is produced by acid etching the glass to form an obscure and smooth surface. This glass admits light while providing softening and vision control. Now our innovated technology could make really nice feeling acid etched glass. It has a distinctive, uniformly smooth and satin-like appearance. As a translucent product, it admits light whilst still providing obscuration and vision control.

#### FEATURES:

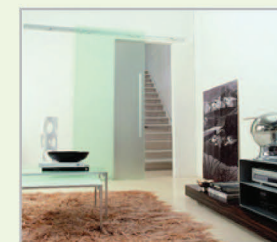
- Distinctive, uniformly smooth and satin-like appearance.
- Create a unique feeling of warmth and elegance by diffusing light and emitting a certain purity of color and light.
- Both internally and externally provides privacy by obscuring unwanted attention, without compromising light levels.
- Its satin-smooth surface the glass does not mark with dirt and fingerprints, providing a low maintenance product.
- Consistent finish and appearance. Does not discolor like films and does not scratch off like coatings

#### SPECIFICATION:

Color: Clear (Plain), Bronze, Dark Grey, Euro Grey, Dark Blue, Light Blue, Dark Green, French Green and Pink, etc.

Thickness: 3mm, 4mm, 5mm, 5.5mm, 6mm, 8mm, 10mm, 12mm, etc.

Sizes: 1524x2134mm, 1830x2440mm, 2134x3300mm, 2250x3300mm etc could be produced as per request.



### SILVER MIRROR - True Image Reflectance

AEON Silver Coated Mirror is produced through a trinal processing work by coating a silver film, a copper film, and two layers of waterproof paints on the surface of glass. High quality clear float and modern mirror equipment combine to produce competitively priced mirrors of exceptionally high quality. This improved manufacturing process also improves the optical quality of the product and significantly increases its longevity through a better resistance to corrosion.

AEON Silver Mirror is available in clear and a wide range of colors. Compared to conventional mirror, it offers excellent resistance to atmospheric agents.

#### FEATURES:

- High reflective, true image reflectance with virtually no distortion
- High optical quality and durability.
- The mirror surface is clear and bright, giving distinct and life like image.
- The plating layer is rigid and bond and the protective layer impregnable with good erosion-resistance.
- Easy to be cut, drilled, or beveled, could be made into wall mirror, decorative mirror, safety mirror, furniture mirror, etc.

#### APPLICATION:

Thanks to its ability to capture and reflect light, AEON Silver Mirror increases the feeling of space and enhances interiors.

- Wardrobe door mirrors
- Bathroom mirrors
- Furniture applications
- Projection screens
- Display cases
- Decorative walls
- Ceiling and pillar covers
- Anytime you want a mirror offering sharp, beautiful reflectance and uncompromising durability

#### SPECIFICATION:

Glass Color: Clear, Ultra clear, Bronze, Euro grey, Dark blue, Light blue, Dark green, Light Green, etc.  
 Back Paint Color: Grey, Blue, Green, white, etc.  
 Thickness: 2mm, 3mm, 4mm, 5mm and 6mm etc.  
 Sizes: 1524x2134mm, 1830x1220mm, 1830x2440mm, 2134x3300mm, 2250x3210mm and 2250x3300mm etc.



### ALUMINUM MIRROR - A High Reflective Mirror

AEON high reflective Aluminum Mirror is produced through horizontal production line, which is the most advanced production equipment for coating aluminum mirror. High quality clear float and modern mirror equipment combine to produce competitively priced mirrors of exceptionally high quality. It is suitable for further processed and edge working. Our colored mirror is produced by vacuum coating a layer of aluminum on the tinted glass, which can supply you a different and nice decorating effect.

#### FEATURES:

- Coated on the high quality float glass, exact image.
- Double coated Italian FENZI water-proof paint
- The plating layer is rigid and bonded. The protective layer is impregnable with good erosion-resistant
- Actual and accurate reflection, high optical quality and durability
- Easy to be cut, drilled, or beveled, could be made into wall mirror, decorative mirror, safety mirror, furniture mirror etc.

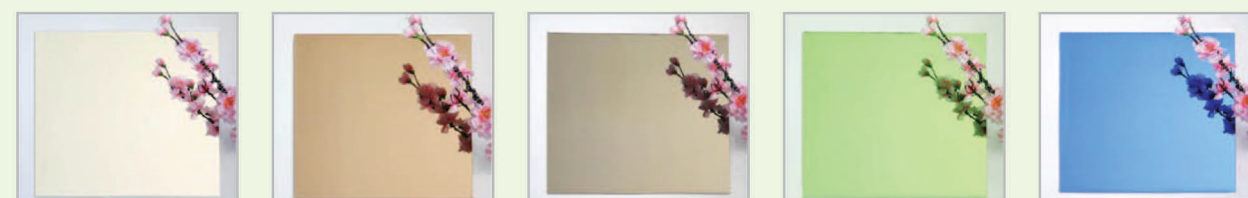
#### APPLICATION:

AEON Aluminum Mirror can be used in many applications where high light reflectance and a sense of increased space are important such as:

- For paneling mirror on walls or doors.
- Furniture and shelves mirror.
- Decorative mirror
- Dressing mirror

#### SPECIFICATION:

Glass Color: Clear, Ultra clear, Bronze, Euro grey, Dark blue, Light blue, Dark green, Light Green, etc.  
 Back Paint Color: Grey, Blue, Green, white, etc.  
 Paints: Single Coated, Double Coated  
 Thickness: 1.3mm, 1.8mm, 2mm, 3mm, 4mm, 5mm, 5.5mm and 6mm, etc.  
 Sizes: 1524x2134mm, 1220x1830mm, 1600x2200mm, 1830x2440mm, 2134x3300mm, 2250x3210mm and 2250x3300mm, etc.



Clear Bronze Grey Green Blue



White Paint Light Grey Paint Dark Grey Paint Blue Paint Green Paint

### COPPER FREE AND LEAD FREE MIRROR - Eco-friendly and Ultra Durable

AEON Copper Free and Lead Free Mirror is applied with a revolutionary new process which replaces copper, the origin of corrosion in mirror, with a highly sophisticated multiple level chemical treatment. In this process, the silvered layer is applied on the glass by a chemical method also known as the wet film method. To reinforce the adhesion of this layer, a preparatory surface treatment of the glass is done by sensitization followed by passivation.

AEON Copper Free and Lead Free Mirror provides unparalleled protection against corrosion, chemicals, moisture and abrasion while adding beauty and elegance to any room. Additionally, AEON's manufacturing system ensures greater durability and resistance to rough handling in transportation, fabrication and installation.

#### FEATURES:

- Completely copper free top coat and <0.15% lead in the wet basecoat.
- Environmentally friendly manufacturing process produces less waste and ensures easier onward recycling.
- 10 times more resistant to natural atmospheric corrosion in accordance with standards
- 3 times more resistant to scratches than standard mirrors
- Improved protection to chemical attack from cleaners and certain adhesives than conventional copper mirrors.
- Easy to be cut, drilled or beveled, could be made into wall mirror, decorative mirror, safety mirror, furniture mirror etc.

#### APPLICATION:

AEON Copper Free and Lead Free Mirror not only durable and environmentally friendly, it can help a building project achieve LEED certification and be designated a "green" building.

- Wardrobe door mirrors
- Bathroom mirrors
- Furniture applications
- Projection screens
- Display cases
- Anytime you want a mirror offering sharp, beautiful reflectance and uncompromising durability

#### SPECIFICATION:

Back Paint Color: White, Grey, Blue, Green, etc.  
 Thickness: 2mm, 3mm, 4mm, 5mm and 6mm  
 Sizes: 1524x2134mm, 1830x2440mm, 2134x3300mm and 2250x3300mm, etc.



### SAFETY MIRROR - A Mirror Meets Your Safety Needs

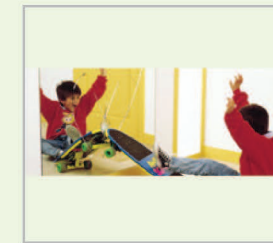
AEON Safety Mirror is made of high quality mirror and high viscous vinyl film. The safety film is applied to the back of the mirror. If the mirror is broken, the vinyl film holds the fragments of glass in place, thus reducing the risk of injury. This makes it the ideal choice for applications anywhere in the home where there is a greater risk of accidental damage, e.g. doors, wardrobes and children's rooms.

#### FEATURES:

- Comply with standard BS 6206 and class 2B of draft standard prEN 12600.
- Injury free and safe.
- High optical quality and durability.

#### SPECIFICATION:

Vinyl Film: PE glossy film CAT I and PVC woven fabric film CAT II  
 Mirror Type: Silver mirror, Aluminum mirror and Copper free mirror  
 Thickness: 2mm, 3mm, 4mm, 5mm and 6mm, etc.  
 Sizes: Produce as per request, 1220 X 2440mm (48" x 96") and maximum 1830 x 2440mm (72" x 96")



### BEVELED MIRROR - Mirrors Meet Your Aesthetic Needs

AEON Beveled Mirror is made by advanced grinding machines. The beveled edges are a common aesthetic nicety added to mirrors.

#### SHAPES:

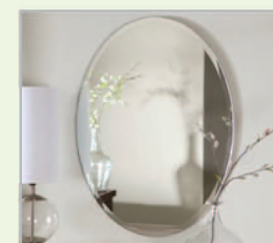
Shown below are just a few of the many shapes you have to select from for your mirror needs:

	Rectangle		Boat		Pentagon
	Circle		Triangle		Hexagon
	Oval		Trapezoid		Octagon
	Racetrack		Parallelogram		Other

If the shape you need is not shown we can probably still do it for you;

#### SPECIFICATION:

Mirror Types: Silver Mirror, Aluminum Mirror, Copper Free and Lead Free Mirror and Safety Mirror  
 Thickness: 3mm, 4mm, 5mm and 6mm  
 Beveled Edge: 1/2", 3/4", 1", 1 1/4", 1 1/2"  
 Edge Finishing: beveled, grinded, c-edge, polished and other edges available





### CLEAR PATTERNED GLASS - Diverse Range of Patterns and Textures

AEON Clear Patterned Glass is a kind of decorative translucent flat glass with embossed patterns on one or both surfaces. With the special property of decoration, patterned glass can fully allow the light to pass through and on the other hand, can limit or prevent clear view effectively.

AEON GLASS wide range of patterns opens up new dimensions in creativity and enhances your interior. The right feeling for the unique attributes of this glass enables architects and designers to create interiors with remarkable effects with aesthetics. The form and function of the glass operate in harmony to produce a unique atmosphere of comfort to your interiors.

#### FEATURES:

- Rich and colorful pattern designs provide unique decorative results: or obscure and quiet, or sparkling and lively, or serious and elegant, or bold and generous...
- Tangible stereoscopic patterns will never fade.
- Each distinctive pattern offers a different level of obscuration, providing privacy without sacrificing natural light.
- Can help to give an impression of space and provides a personalized and timeless effect to all environments.
- Can be cut, ground, drilled, tempered, laminated and printed, etc.

#### APPLICATION:

AEON Clear Patterned Glass is ideal for creating bright and private spaces. Our pattern glass offers an extensive range of designs, colors and textures that are suitable for decoration of residential or commercial premises:

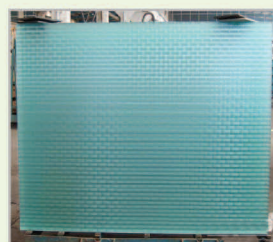
- Doors
- Interior Glass Partitions
- Glass Shower screens
- Balconies, Furniture, glass shelving, kitchen fittings and work tops

#### SPECIFICATION:

Thickness: 3mm, 4mm, 5mm, 5.5mm, 6mm, 7.5mm and 8mm, etc.

Sizes: 1220x1830mm, 1500x2000mm, 1524x2134mm, 1900x2200mm, 1830x2440mm and 2140x3300mm, etc.

Patterns: Aqualite, Bamboo, Beehive, Canelado, Chinchilla, Crystal, Diamond, Flora, Hishicross, Karatachi, Kasumi, Map, Masterlite, May Flower, Millennium, Mistlite, Morgon II, Nashiji, Rain, Ripple, Silver Bead, Waterfall, Woven, etc.



### Clear Patterned Glass Pictures



Aqualite



Bamboo



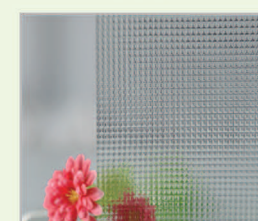
Beehive



Canelado



Chinchilla



Crystal



Diamond



Flora



Hishicross



Karatachi



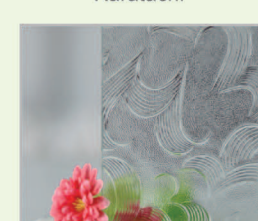
Kasumi



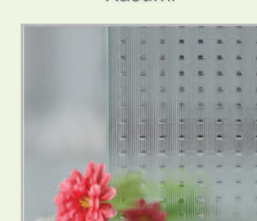
Map



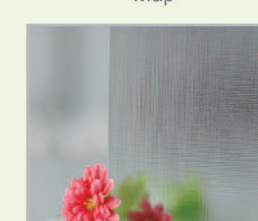
Masterlite



May Flower



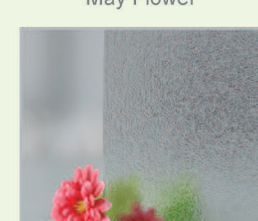
Millenium



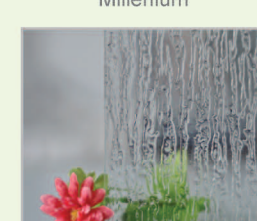
Mistlite



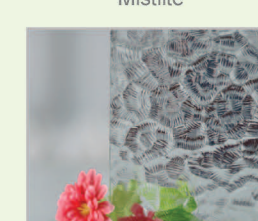
Morgon II



Nashiji



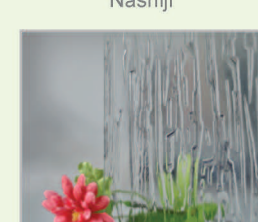
Rain



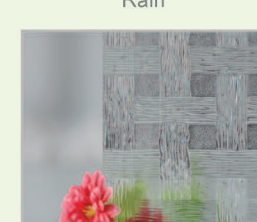
Ripple



Silver Bead



Waterfall



Woven

### COLORED PATTERNED GLASS - A Unique Atmosphere of Comfort

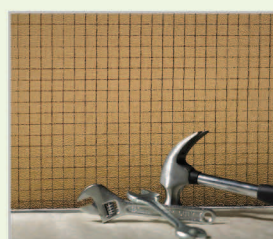
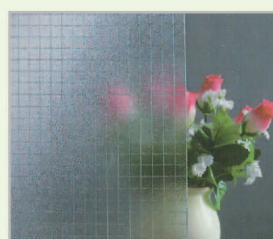
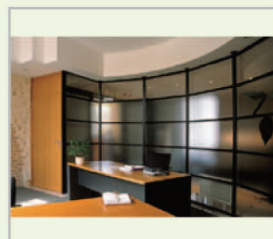
AEON Colored Patterned Glass range comprises more than 50 patterns, designed to create a sophisticated environment in which to live. The shiny geometric patterns are printed onto the glass and appear color on a translucent matte base.

#### FEATURES:

- Rich and colorful pattern designs provide unique decorative results: obscure and quiet, or sparkling and lively, or serious and elegant, or bold and generous...
- Tangible stereoscopic patterns will never fade.
- Each distinctive pattern offers a different level of obscuration, providing privacy without sacrificing natural light.
- Can help to give an impression of space and provides a personalized and timeless effect to all environments.
- Can be cut, ground, drilled, tempered, laminated and printed, etc.

#### SPECIFICATION:

Colors: Bronze, Grey, Blue, Green and Amber, etc.  
 Thickness: 3mm, 4mm, 5mm, 5.5mm and 6mm  
 Sizes: 1220x1830mm, 1500x2000mm, 1524x2134mm, 1830x2440mm, etc.  
 Patterns: Chinchilla, Flora, Karatachi, Mistle, Map, Nashiji, Ripple, Woven, etc.



### WIRED GLASS - A Safety Patterned Glass

AEON Wired Patterned Glass is a kind of reinforced concrete-structured safe and decorative flat glass with wired mesh embedded in the glass by a special mesh unwinding system during glass forming. A steel wire mesh is sandwiched between two separate ribbons of semi-molten glass, and then passed through a pair of metal rollers which squeeze the "sandwich" of glass and wire together.

#### FEATURES:

- Fireproof
- Shock resistant
- Translucent decoration

#### SPECIFICATION:

Glass Pattern: Nashiji  
 Color: Clear, Bronze, Grey, Blue and Green, etc.  
 Thickness: 6mm and 6.5mm  
 Sizes: 1500x2000mm, 1220x1830mm, 1830x2440mm and 2000x2500mm, etc.

### Colored Patterned Glass and Wired Glass Pictures



Amber Flora



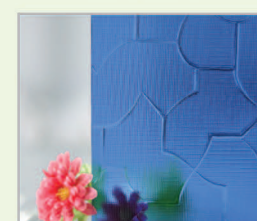
Amber Karatachi



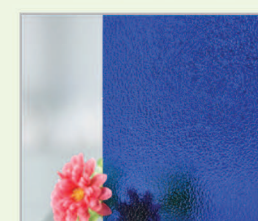
Amber Ripple



Blue Flora



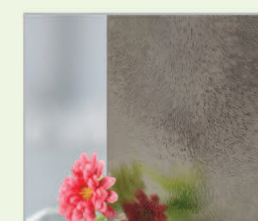
Blue Karatachi



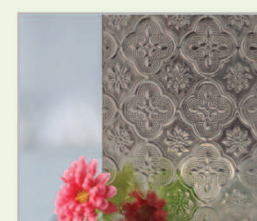
Blue Nashiji



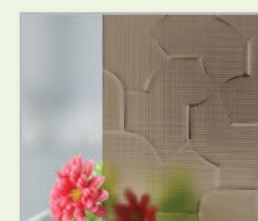
Blue Ripple



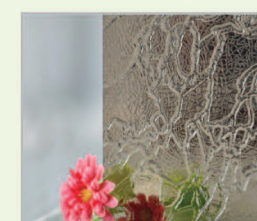
Bronze Chinchilla



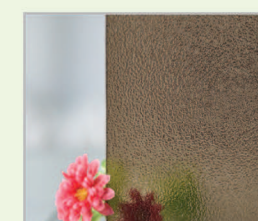
Bronze Flora



Bronze Karatachi



Bronze Map



Bronze Nashiji



Bronze Ripple



Bronze Woven



Green Flora



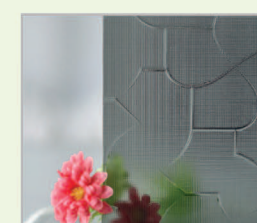
Green Karatachi



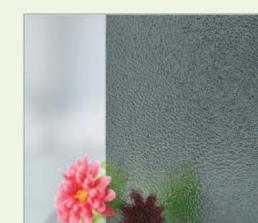
Green Nashiji



Green Ripple



Grey Karatachi



Grey Nashiji



Bronze Wired



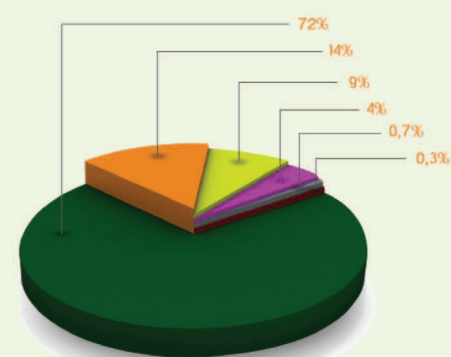
Clear Wired

### Glass Chemical Composition

The glass scrap, clean and selected, is used to help in the melting.

The tinted glasses are produced adding pigment to the composition as selenium (Se), iron oxide and cobalt to achieve the different colors.

Glass Components

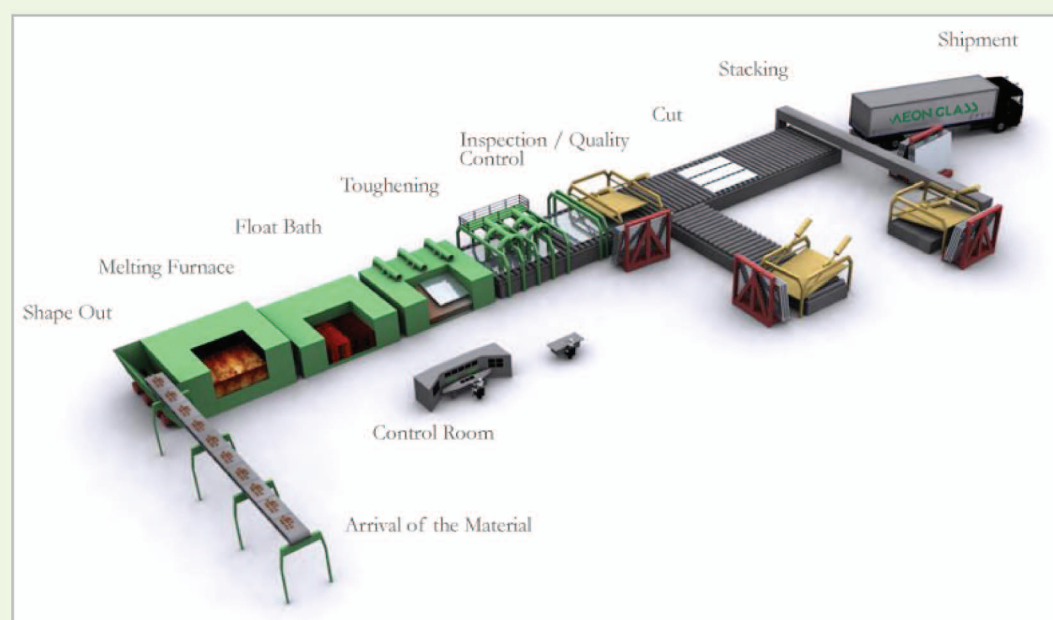


**Caption:**

- Silica (SiO<sub>2</sub>)  
Basic raw material (sand) with vitrifying function.
- Sodium (Na<sub>2</sub>SO<sub>4</sub>)
- Calcium (CaO)  
It provides stability to the glass against attacks of atmospheric agents.
- Magnesium (MgO)  
It ensures the resistance to the glass in order to support abrupt changes of temperature and increases the mechanical resistance.
- Alumina (Al<sub>2</sub>O<sub>3</sub>)  
Increases the mechanical resistance.
- Potassium (K<sub>2</sub>O)

### Float Glass Manufacturing Process

The raw material are mixed with precision and melted in the furnace. The molten glass, at about 1600°C, is continuously poured in a tank of liquefied tin, chemically controlled. It floats in tin, spreading equally. The thickness is controlled by the speed of the glass plate that solidifies as it continuous advancing. After the toughening (controlled cooling), the process ends with the glass presenting polished and parallel surfaces.



### Glass Manufacturing Equipments and Machines



**Glass Package and Loading**



**CE Certificate**

**TNO Quality Services B.V.**



De Rondom 1  
P.O. Box 6235  
5600 HE Eindhoven  
The Netherlands

www.tno-quality.nl

T +31 40 265 03 26  
F +31 40 265 03 02

TNO Quality Services B.V. has been notified as Notified Body (number 1750) for the European Construction Products Directive 89/106/EEC.

TNO Quality Services B.V. has been accredited by the Dutch Accreditation Council (RvA) as ISO 17025 test laboratory, accreditation number L 484.

**TNO report**

**7712R-E09.25038**

Test report relating to a glass product according to European standard EN 572-9, Product aspects, concerning the product with trade mark: Float Glass (Clear & Bronze), type: Soda lime silicate glass, manufacturer: AEON Industries Co. Ltd.

Date 23 September 2009

Author(s) L. van der Ven, B.Sc.

Client **AEON INDUSTRIES CORPORATION LIMITED**  
No. 2 Shandong Road, Qingdao  
Zip Code: 266071  
China

Project number E09.25038

Project name **EN572 AEON INDUSTRIES CORPORATION LIMITED**

Number of pages 9

All rights reserved.

No part of this report may be reproduced, provided to and/or examined by third parties, and/or published by print, photoprint, microfilm, in electronic form or any other means without the explicit previous written consent of TNO (Quality).

In case this report was drafted within the context of an assignment to TNO (Quality), the rights and obligations of contracting parties are subject to the General Terms & Conditions for Advisory, Research and Certification assignments to TNO (Quality) and/or the relevant agreement concluded between the contracting parties.

© 2009 TNO