



Website: www.rayatradingco.com
Email: info@rayatradingco.com
WhatsApp: +98 913 151 2083
Address: Raya Building, Enghelab St.,
Yazd, Iran

Raya International Trading Company is a young and dynamic company which has the experience of more than 12 years.

Raya Co aims at offering international business management services to the companies under the contract including Glass in all grades.

At Raya co, we are one of most reputable international general trading companies that represents leading manufacturers and suppliers on an international scale. Being a reliable and trustworthy supplier, we have the innate capability to execute orders of all sizes. We strive to provide the highest quality products and services for the most affordable price. Honesty, integrity, and value are what our company's reputation is built upon. We put our best foot forward to deliver only the highest quality products and services – we place our customers as the first priority in all stages of the product and service delivery chain.

Below you can find some specification of our products:

Main Products:

- 1- Architectural Glass
- 2- Automotive Glass
- 3- Mirror Glass

Clear Float Glass:

Clear Float Glass is made of molten glass which flows through furnace to tin bath and to the Lehr.

The main features are smooth and flat surface, high transmission and free from any kind of optical distortion.



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The product range has been designed to meet the global quality standards for architectural and automotive glazing applications and all other secondary processes like heat treatment, bending, laminating and coating.

Dimensions:

Thickness: 1.9 mm – 19 mm	Size:
Super Jumbo Size, Extra(EJS):	(7200 x 4880)mm, (4880 x 4000) mm, (4880 x 3660) mm
Standard Jumbo Size (SJS):	(6000 x 3210) mm
Extra LES (ELES):	(4880 x 4000) mm, (4880 x 3660) mm
LES:	(3660 x 2440) mm, (3660 x 2250) mm, (3660 x 2140) mm
Medium Size (1/2 LES):	(2440 x 3660) mm, (2440 x 3210) mm, (2440 x 3050) mm (2440 x 2140) mm, (2440 x 1830) mm, (2440 x 1220) mm (3210 x 2600) mm, (3210 x 2500) mm, (3210 x 2440) mm (3210 x 2250) mm, (3210 x 2200) mm, (3210 x 2140) mm (3210 x 2000) mm, (3210 x 1800) mm, (2250 x 2140) mm, (2250 x 1800) mm, (2250 x 1670) mm (2250 x 1605) mm (2140 x 3210) mm, (2140 x 3050) mm, (2140 x 2440) mm (2140 x 2250) mm, (2140 x 1830) mm, (2140 x 1670) mm (2140 x 1605) mm, (2140 x 1525) mm, (2140 x 1220) mm
Small Size(1/3 LES):	(1670 x 2500) mm, (1670 x 2250) mm, (1670 x 2140) mm (1605 x 2250) mm, (1605 x 2200) mm, (1605 x 2140) mm (1605 x 2000) mm, (1605 x 1800) mm, (1605 x 1250) mm (1605 x 1220) mm, (1605 x 1125) mm, (1605 x 1100) mm (1605 x 1070) mm, (1605 x 1000) mm, (1605 x 900) mm (1220 x 1830) mm, (1220 x 1605) mm, (1220 x 1525) mm
Packing Type:	Bulk, Wooden Box, Steel Racks (L & A)

Quality Standards for Architectural Glass:

Quality Description		Thickness - mm									
		2	3	4	5	6	8	10	12	15	19
Thickness Tolerance	Maximum	-0.2/+0.2	-0.2/+0.1	-0.2/+0.1	-0.2/+0.1	-0.2/+0.1	-0.3/+0.2	-0.3/+0.2	-0.3/+0.2	-0.4/+0.3	-0.4/+0.3
thickness Gradient	Maximum mm/m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Size Tolerance-mm	Maximum for JS & LES	± 3	± 3	± 3	± 3	± 3	± 4	± 4	± 4	± 6	± 6
Flatness – mm/m	Maximum Cross Bow	2	2	2	2	2	2	2	2	2	2
Bowl & Dish – mm/m	Maximum	2	2	2	2	2	2	2	2	2	2
Edge Defect (Max. Size – mm)	Flake, Shell	4	4	4	4	4	4	4	4	4	4
	Flare, Bevel	4	4	4	4	4	6	6	6	6	6
	Corner defect	4	4	4	4	4	6	6	6	10	12
Optical Distortion	Zebra Angle	40°	43°	43°	43°	43°	45°	45°	45°	45°	45°
Residual Stress - Mpa	Maximum	2	5	7	8	11	12	15	18	23	26
Squareness	Diagonal Difference	Half of Diagonal Difference = 0.2% of Diagonal length, Max. 10 mm for Jumbo Size, 4mm for Cut Size									
Over score	Cut Drag	Not Allowed									
Surface Quality		Glass particles, water, oil and dirt on the surface of the glass that may cause scratch and other problems during handling and processing is not allowed.									
Linear Surface Flaws	Scratch & Scuff, Roller Mark Tin Lines, Top Specks etc.	Visible Flaws Viewed at One Meter Under Normal Room Light is not Allowed. Maximum Total Length of Individual Visible Flaws should not be more than 300 mm/square meter under Normal Fluorescent Light Inspection at One Meter Distance.									
Point Defects – number/m ²	Defect Size < 0.25 mm	Allowed									
	0.25 mm Defect Size < 0.5mm	Allowed									
	0.5 mm Defect Size < 0.75 mm	Allowed									
	0.75 mm Defect Size < 1.0 mm	Five Defects /Square Meter. Distance between adjacent point defects should be more than 300 mm.									
	1.0 mm Defect Size < 1.5 mm	Four Defects /Square Meter. Distance between adjacent point defects should be more than 300 mm.									
	1.5 mm Defect Size < 2 mm	0.50 Defects /Square Meter. Distance between adjacent point defects should be more than 500 mm.									
	Defect Size > 2 mm	Not Allowed									

Optical Properties of Clear Float Glass:

Thickness	UV	Visible		Direct Solar Energy		
	Trans %	Trans %	Ref %	Trans %	Ref %	Abs %
2	73	73	73	73	73	73
3	72	72	72	72	72	72
4	62	62	62	62	62	62
5	66	66	66	66	66	66
6	59	59	59	59	59	59
8	58	58	58	58	58	58
10	50	50	50	50	50	50
12	47	47	47	47	47	47
15	47	47	47	47	47	47
19	44	44	44	44	44	44

Quality Standards for Automotive Glass (Tempered & Laminated):

Quality Description		Thickness - mm									
		1.9	2	2.2	2.3	2.5	3	3.2	3.3	3.5	4 & 5
Thickness Tolerance	Maximum	± 0.05	± 0.05	± 0.05	± 0.05	± 0.075	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1
Thickness Gradient	Maximum mm/m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Size Tolerance - mm	Maximum for LES	± 2	± 2	± 2	± 2	± 2	± 3	± 3	± 3	± 3	± 3
Flatness - mm/m	Maximum Cross Bow	1	1	1	1	1	2	2	2	2	2
Bowl & Dish - mm/m	Maximum	1	1	1	1	1	1	1	1	1	1
Edge Defect (Max. Size - mm)	Flake, Shell	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.0
	Flare, Bevel	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.0
	Corner defect	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.0
Optical Distortion	Zebra Angle	55°	55°	55°	55°	55°	53°	53°	53°	53°	53°
Maximum Residual Stress (Mpa)	Tensile	2	2	2	2	2	2	2	2	2	2
	Compressive	6	6	6	6	6	6	6	6	6	6
Squareness	Diagonal Difference	Half of Diagonal Difference = 0.2% of Diagonal length, Max. 10 mm for Jumbo Size, 4mm for Cut Size									
Over score	Cut Drag	Not Allowed									
Surface Quality	Glass particles, water & etc.	Glass particles, water, oil and dirt on the surface of the glass that may cause scratch and other problems during handling and processing is not allowed.									
Linear Surface Flaws	Line, Scratch & Scuff, Roller Mark, Tin Lines, Top Specks	Visible Flaws Viewed at One Meter Under Normal Fluorescent Light Inspection is Not Allowed.									
Point Defects - number/m ²	Defect Size < 0.25 mm	Allowed									
	0.25 mm Defect Size < 0.5mm	2.0 Defects /Square Meter. Distance between adjacent point defects should be more than 500 mm.									
	0.5 mm Defect Size < 0.75 mm	0.50 Defects /Square Meter. Distance between adjacent point defects should be more than 500 mm.									
	0.75 mm Defect Size < 1.0 mm	Not Allowed									
	1.0 mm Defect Size < 1.5 mm	Not Allowed									
	1.5 mm Defect Size < 2 mm	Not Allowed									
	Defect Size > 2 mm	Not Allowed									





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Products:





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Colored float glass, or architectural glass, is made by mixing molten glass with a certain amount of chemicals that are first poured into the melting furnace and then into the tin bath.

The characteristics of this product are good heat reflection and absorption, which reduces the transmission of the sun's heat rays.

At **Raya Company**, we have been able to supply different types of glass in different colors to our customers.

- 1- Thickness: 1/8 – 12 mm.
- 2- Length / width: It can be supplied in all dimensions available in the dimensions table.
- 3- Packaging: Bulk / Wooden Box / Steel Racks (L & A)



Offline reflective Glass:

In the method of producing reflective offline glasses, all kinds of float glasses are coated with metals such as silver, nickel, chrome, copper, aluminum or metal and ceramic compounds in complete vacuum conditions.

Thickness: 3 – 12 mm

Maximum Size: 2240 × 3660





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Online reflective Glass:

Production of online reflective glass is done by applying a thin and transparent layer of metal oxides on the surface of clear or colored float glass in a tin bath, using CVD technology.

Thickness: 1.9 – 12 mm.

Maximum Size: 6000 × 4000 mm.

Packaging: Bulk / Wooden Box / Steel Racks (L & A)



Solar Reflective Glass:

Solar reflective Glass is made by applying transparent Metallic layer on clear or tinted float glass surface by Vacuum sputtering technology. The main feature is excellent reducing of solar heat again by reflecting and absorbing solar energy.

Thickness: 3 – 10 mm

Maximum Size: 3660 × 2440 mm

Packaging: Bulk, Wooden Box, Steel Racks (L & A)



Low Emissivity Glass (Low-E Glass)

Low-E glass is produced by vacuum sputtering Technology. Emissivity measures the materials ability to radiate energy. As silver is the materials with lowest emissivity, one, two or three transparent layers of silver are applied on the surface of the glass for reducing the glass emissivity.

Thickness: 4 – 10 mm

Maximum Size: 6000 × 2440 mm



Mirror:

Silver mirror is produced through multiple coating of glass by a silver layer, copper layer and two layers of water proof paint on the back of qualified float glass. Copper – free silver mirror and aluminum mirror is in case of customer request.

Thickness: 2 – 8 mm

Maximum Size: 3600 × 2400 mm

Packaging: Bulk, Wooden Box, Steel Racks (L & A)



Aluminum mirror:

Aluminum mirror is created by coating a layer of Aluminum in sputtering deposition method under Vacuum on the surface of glass and two water proof layers on the back of high-quality float glass. The main features of aluminum mirror are high Durability and affordable of mirror and showing a good image.

Thickness: 2 – 8 mm

Maximum Size: 3600 × 2400 mm

Packaging: Bulk, Wooden Box, Steel Racks(L&A)



Decorative Glass:

Acid etched clear and tinted float glass with smooth finished.

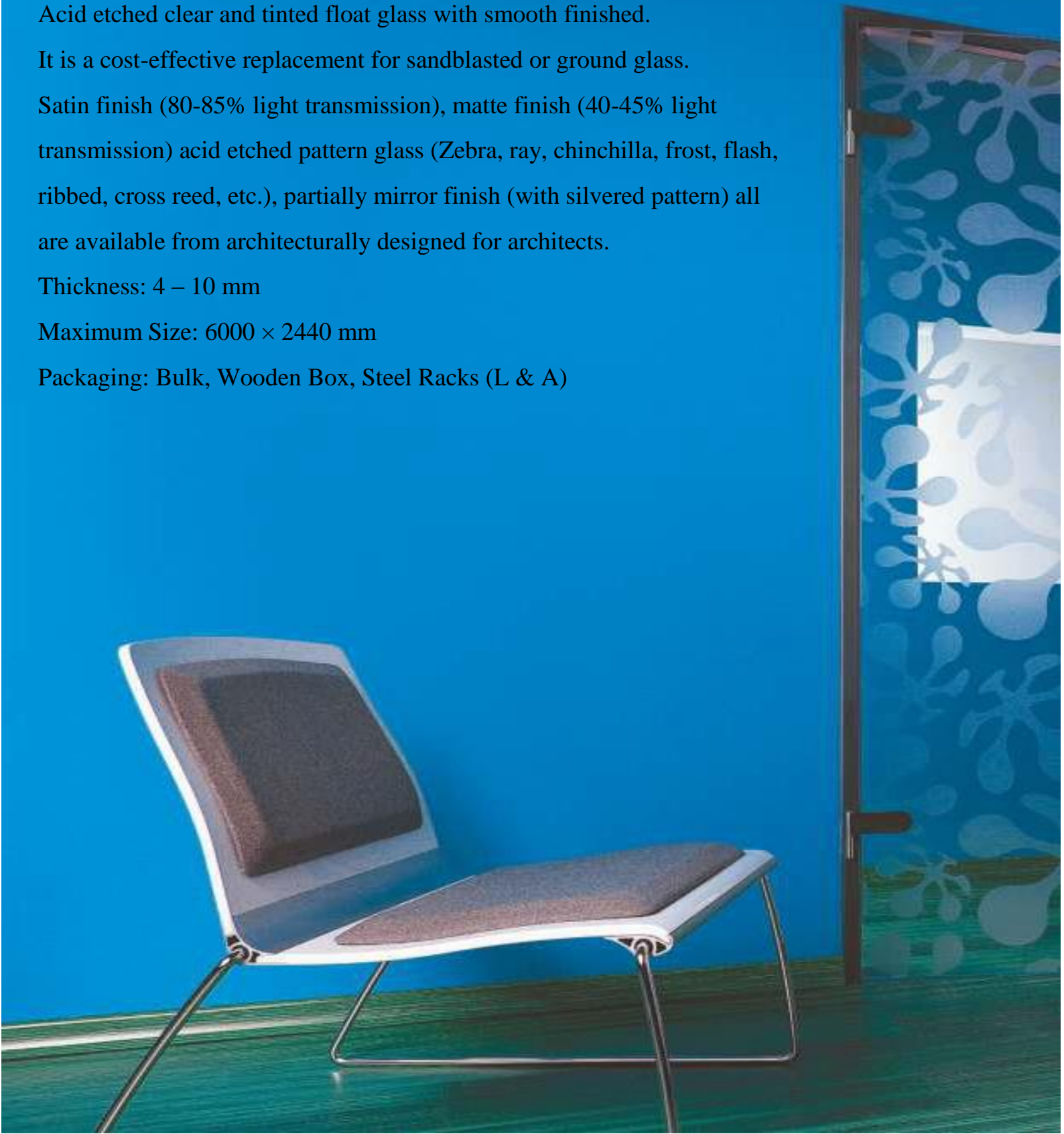
It is a cost-effective replacement for sandblasted or ground glass.

Satin finish (80-85% light transmission), matte finish (40-45% light transmission) acid etched pattern glass (Zebra, ray, chinchilla, frost, flash, ribbed, cross reed, etc.), partially mirror finish (with silvered pattern) all are available from architecturally designed for architects.

Thickness: 4 – 10 mm

Maximum Size: 6000 × 2440 mm

Packaging: Bulk, Wooden Box, Steel Racks (L & A)



Satina Glass:

The manufacturing process of Satina glass is the particular combination of HF acid. Which removing parts of the surface of the glass, thus the Glass surface changes into opaque (matte).

Thickness: 3 – 19 mm

Maximum Size: 3700 × 2600 mm

Minimum Size: 1000 × 1000 mm

Packaging: There is no need to use Separator powder for this kind of Packaging.

Lacquered Decorative glass:

By Applying paint on the colored or clear float glasses, variety of Architectural materials show greatly specially for interior design.

These kinds of glass divided into two main color groups, one of them is organic and the other one is ceramic paints that can be applied in various Conditions.





Laminated:

Laminated glass is a safety glass made from two pieces of float glass with a flexible plastic interlayer or PVB. The glasses and interlayer are bonded together by heat and pressure. The main features of laminated glass are safety, sound reduction, UV elimination and shielding and glare control.

Thickness of substrate: 3 – 19 mm

Maximum thickness of laminated glass: 60 mm

Maximum Size: 3210 × 6000 mm

Interlayer: PVB, EVA, SGP

Packaging: Bulk, Wooden Box, Steel Racks (L & A)



Insulating Glass Unit (IGU):

Insulated glass unit comprises two or more panels of glass separated by a spacer that contains a desiccant which eliminates moisture in the air space. The sides are hermetically sealed with high-strength and double barrier sealant. The combination of two glass panels and trapped gas in between makes IGU an excellent energy efficient glazing method.

Thickness of Panels: 3 – 19 mm

Thickness of aluminum spacer: 6 , 9 , 12 , 16 mm

Maximum Size: 2440 × 6000 mm

Tempered and heat strengthened Glass:

Tempered and heat strengthened Glass is produced by heating the float glass to approximately 700°C and cooling its surface rapidly. Rapid cooling creates compressive stress on the surface of the glass; therefore, it is more resistant to thermal shock, bending and withstands higher wind loads.

Thickness of panels: 3 – 19 mm

Maximum Size: 2440 × 6000 mm

Packaging: Bulk, Wooden Box, Steel Racks (L & A)





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Packaging

Transport

Storage and Loading

Raya Co. has the endeavor to provide consistently qualified products accompanied by the best quality of packing, timely delivery and after sale, services. For achieving this goal, Raya Trading Company has used the most equipped, machineries for safe and secure packing, storage, loading and transporting the company takes the advantages of special in loaders for transportation Super Jumbo, Jumbo and LES sizes up toned-users warehouse of customers.





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info@rayatradingco.com



0098-3535247304



0098-3535237380



0098-9131512083



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Yazd, Iran

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