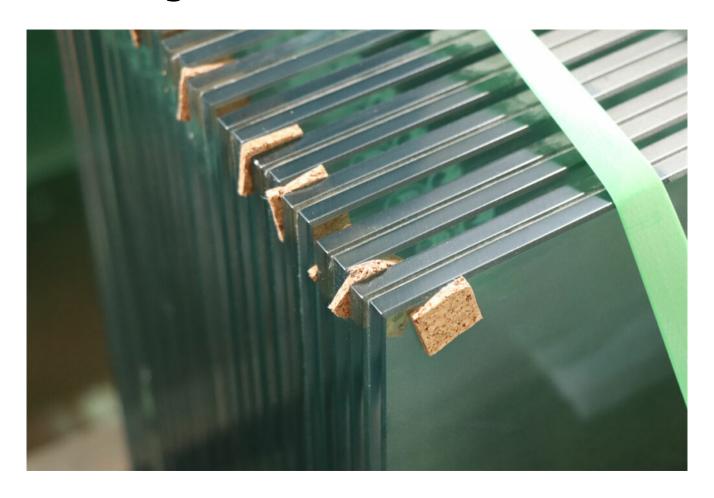
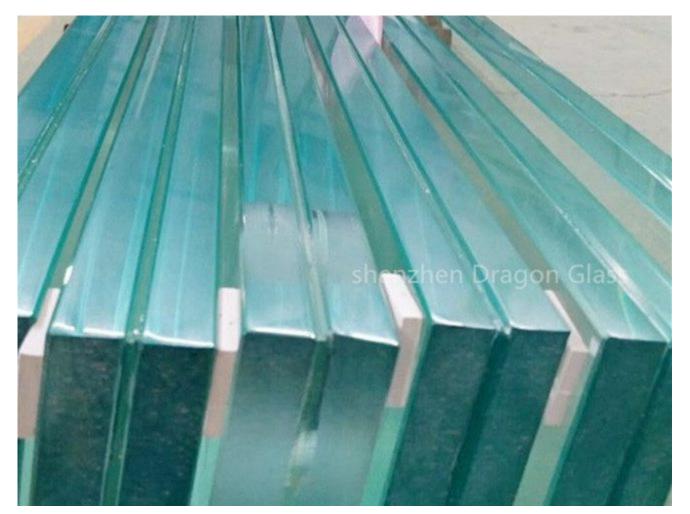
High Safety EN12600 10104 Harden Laminated Glass for Railing



What is 10104 Harden Laminated Glass?



10104 Harden Laminated Glass is a specific type of laminated glass designed for use in applications where safety, security, and durability are paramount. 10+10mm Laminated glass typically consists of two 10mm toughened glass bonded together with PVB interlayer.

Applications for this type of glass include building facades, skylights, railings and safety windows in various settings.

Because if this type of glass breaks, the small shards will adhere to the PVB film, preventing secondary injury. This is why 10+10mm tempered laminated glass is the safest glass in the world. Today, let's discuss the features of this glass when used in railing projects.

2- Why use 10+10mm tempered laminated glass for railing?

(1) 10104 VSG Glass railings are environmentally friendly:

People who are concerned about the environment need not worry. Glass railings are eco-friendly and recyclable. If the laminated glass breaks, it can be recycled and made into new glass, aligning with sustainable development.



Environmentally friendly for laminated glass as railings

High Safety Characteristics

21.52 mm tempered laminated glass has a very high level of safety. People have a bias against glass, thinking it poses potential risks. There is no need to worry. Unless the situation is extreme, tempered laminated glass is very difficult to break. Even if it does break, the fragments are not sharp and are less likely to cause harm to the human body.

Good View for Railing

Compared with other materials, glass has a better vision and decorative effect. The normal transmittance of 10104 VSG can reach 84%. If <u>ultra-clear glass</u> is used, the luster will be better.



Nice view when you installed the 10104 VSG glass railing

Easy to Maintain and Clean

It is easy to clean. If the glass railing gets damaged or scratched, you can easily restore its original beauty by polishing it. This is an important advantage that wood or metal cannot compete with.



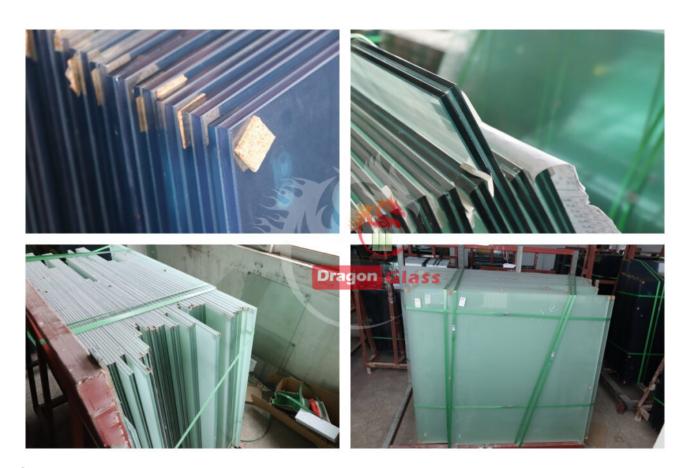
The client maintains the glass railing easily

Available Colors Choices of 10104 VSG glass

The PVB color for 1010.4 VSG glass can be customized anytime for your projects. We support <u>RAL/Panton color</u>, or Vanceva glass number to meet your requirements.



Our stock PVB color VSG for reference



Different colors for vsg glass

3- Specification of 10104 VSG laminated glass

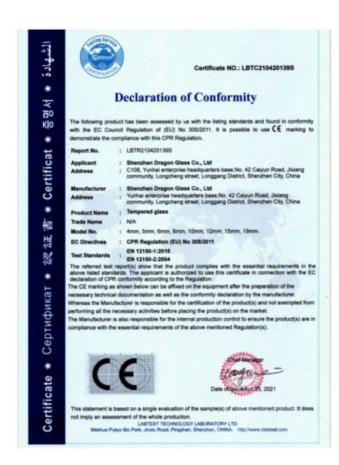
Product name	10104 VSG glass, 21.52mm toughened laminated glass, 10+10mm laminated tempered glass
Thickness	10mm tempered glass + 1.52 PVB + 10mm toughened glass - 7/8 thick
Size range	Customized, for railing we suggest the size less than around 1000x2000mm
Color choice	Normal clear, ultra clear, or other PVB color, like red, yellow, blue, pink, green
Shape choice	Shaped, curved, flat

Customized	Polished edge, drill holes, cutout, cut notches, safety corner, etc.
Delivery time	around 15-20 days
Trade term	EXW, FOB, CIF, DDP, DDU

4-Quality control for 21.52mm tempered laminated glass

Nowadays, 10+10mm toughened laminated glass is widely used in construction, and controlling the quality of glass railings is very important. The toughened laminated glass produced by Dragon Glass meets the following standards:

- Subject to BS standard
- Subject to SGCC-ANSI Z97.1 standard
- Subject to ASTM C1172 standard
- Subject to CE- EN12543, EN14449 standard
- Subject to the ISO 9001 standard
- Subject to the AS/NZS 2208:1996 standard

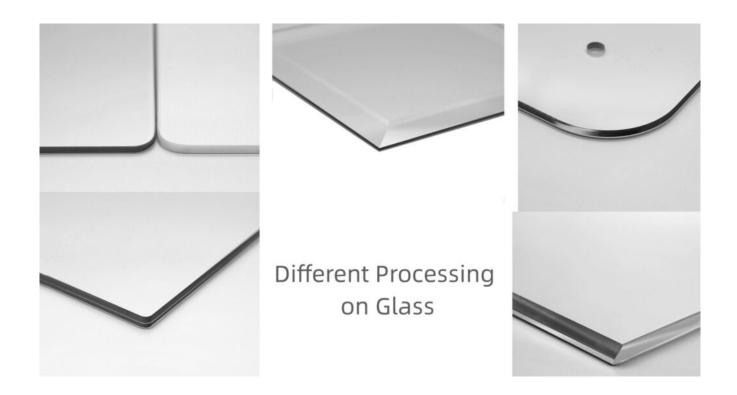








All processing such as polished edges, rounded corners, drilling, notches, and grooves must be completed before tempering and laminating.



5- Applications

Besides glass railing, they can still be used for balustrades, terraces, balconies, swimming pool fences, guillotine glass, and so on.



Different glass railing projects

6- Processing details for 10104 VSG glass

Cutting line

<u>Dragon Glass group</u> has over 7 cutting lines, including Bottero, Lisec auto cutting line, CNC cutting line, and so on, according to the customer's CAD drawing, our professional team will try our best to help you with your railing glass sizes and shapes.



Edging line

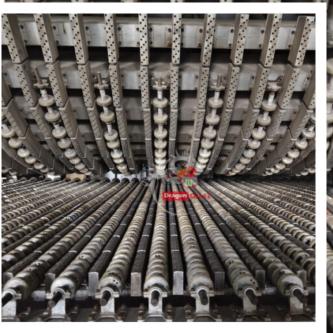
Support over 12 types of edge polishing items, including Flat polished, beveling, and round edge, no matter whether building glass, or <u>furniture glass</u> edges or if you have other glass requirements, kindly <u>contact our team.</u>



Tempering & bending processing line

Besides flat toughened glass, we also can curve the glass panel, to ensure safety and durability, you will get very nice quality curved toughened glass.





Pre-laminating line

The professional workers will transfer and combine two panels of $\frac{10mm\ toughened\ glass}{10mm\ toughened\ glass}$ (3/8 toughened glass) with interlayers 1.52 PVB (0.06"), and make a pre-laminate before high temperature and pressure.



<u>Autoclave</u> laminating Line

All the laminated glass will be moved to the Autoclave from Dragon Glass, and after hours of high temperature and pressure, which is cooling, it will be moved to the inspection room for our QA & QC checking.



7. Packing and Delivery

Strict inspection for laminated glass before delivery,

In every step of the production process, a light needs to be shined on the glass to ensure that there are no scratches, bumps, or watermarks.



Laminated glass inspection by flashlight in Dragon Glass



Safety packing for laminated glass 10104 VSG

10104 VSG glass is a nice option for balustrade projects worldwide, it is extremely cost-effective and for railing projects, the size variations are small, so production time can be faster.

Please don't miss this opportunity to place your order, we can deliver it very soon to your hand. <u>Contact us now!</u>