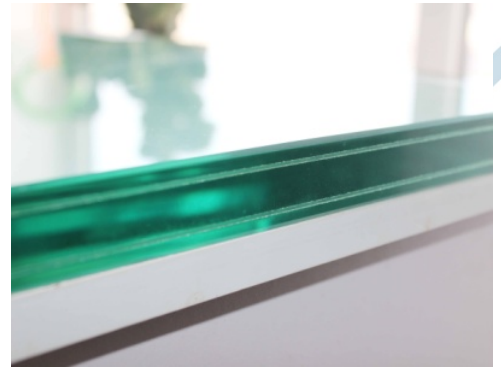


NOVAL GLASS TEMPERED LAMINATED GLASS

➤ LAMINATED GLASS INTRODUCTION

NOVAL laminated glass comprises two or more sheets of glass bonded together with one or more interlayer's of polyvinyl butyric (PVB) film. Laminated glass incorporates a single PVB sheet with a nominal thickness of 0.38mm, distinguishing it from Noval laminated glass which has a minimum thickness of 0.76mm. Laminated glasses with different levels of safety and security can be obtained by varying the number and /or thickness of each of the components. If the laminated glass breaks, the fragments of glass are held in place by the interlayer(s). In fully framed installations the broken glass retains a residual strength while awaiting replacement.



➤ TEMPERED GLASS INTRODUCTION

NOVAL tempered glass is a heat toughened safety glass. It has undergone a special heat treatment to increase its strength and resistance to impact. In fact, tempered glass is approximately five times more resistant than normal glass. For example a piece of 8mm toughened glass will be able to withstand a steel ball weighing 500gr dropped from a height of 2 meters. NOVAL Tempered Glass is the perfect option for architects which must meet building codes and safety requirements. It is ideal for areas with high wind loads and areas where human contacts are an important consideration.

➤ TEMPERED LAMINATED GLASS INTRODUCTION

● WHAT IS TEMPERED LAMINATED GLASS

NOVAL tempered laminated glass is made of two or more layers of glass, which is tempered in advance, with more layers of PVB film than normal laminated glass.

● WHY SHOULD WE USE TEMPERED LAMINATED GLASS?

Because we need both the high strength and shock resistance of tempered glass and the shatterlessness of laminated glass

● WHERE SHOULD WE USE TEMPERED LAMINATED GLASS?

Tempered Laminated Glass is born for places where needs high safety but may stand Sudden Strength Shock or Sustained High Pressure like Glass Floor, Glass Roof, Guard Rail, Aquarium and Elevator Office etc.

● WHAT WILL HAPPEN WHEN TEMPERED LAMINATED GLASS BROKEN?



➤ TEMPERED LAMINATED GLASS FEATURES

- Good sound insulation.
- UV-proof: laminated glass insulates most UV while allowing visible light to enter,
- Bullet proof: High intensity glass can be made by adding more PVB layers and glass of different thickness.
- Except for transparent PVB, we offer milk white and other various colors to meet different tastes and needs.
- Double Safety: High Shock resistance. If broken, the shatters stick on the PVB layer.

➤ TEMPERED LAMINATED GLASS SPECIFICATION

NOVAL Tempered Laminated Glass is totally customized from Color, Thickness, Dimension, and Layers to Drilling, Cutting, Edgework and other requirements.

● COLOR

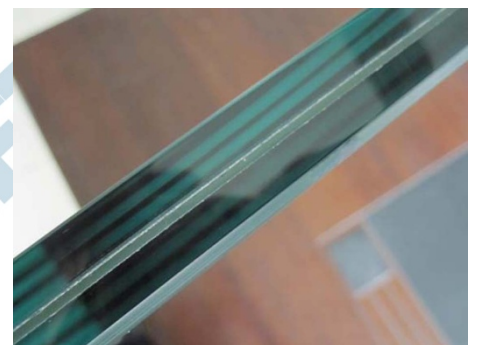
Two ways make the Laminated Glass colorful—Tinted Glass and Colored PVB layers.

Tinted Glass: Commonly used French Green, Euro Grey and Euro Bronze, usually 4-6mm.

PVB: Commonly used for Milk White, Translucent Color and usually over 8mm Glass. PVB provides a variety of colors



● DRILLING AND EDGEWORK



➤ TEMPERED LAMINATED GLASS PRODUCTION LINE

● TEMPERED LINE



● LAMINATED LINE



➤ PACKING AND LOADING

● SMALL SIZE



● BIG SIZE



➤ APPLICATION

● BLASTRADE



● ROOF



● STAIR AND FLOOR



● ELEVATOR OFFICE



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