

# Tempered / Laminated Glass Specialist



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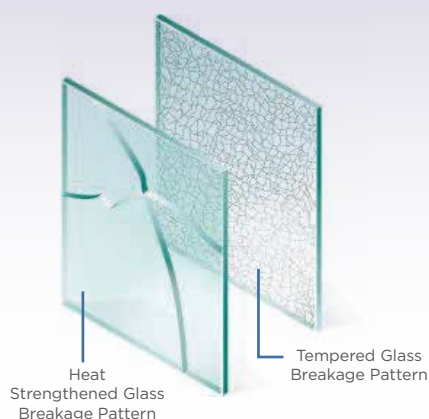
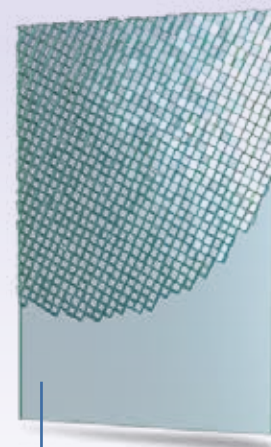
# TEMPERED GLASS

## For Bending & Impact Strength

Tempered glass is an excellent choice for large expanses that maximize clear view while providing significant wind load and thermal stress resistance. When it comes to glazing selections, especially for applications required durability, strength and safety, tempered glass should be the priority choices. ENERGY Safety Glass provides consistent high quality tempered glass to meet market requirement.

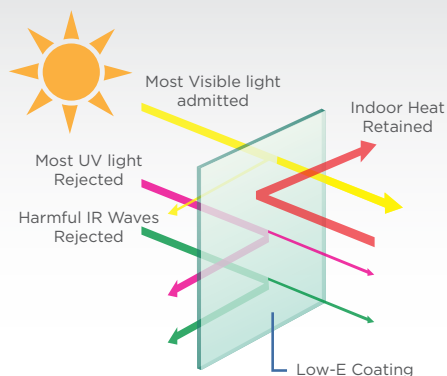


Tempered glass Break Pattern diagram



# HEAT STRENGTHENED GLASS

Heat-strengthened glass is glass that has been heat-treated to have a surface compression between 3,500 and 7,500 psi (24 to 52 MPa), making it approximately twice as strong as annealed glass of the same thickness and configuration. Unlike fully tempered glass, heat-strengthened glass is not considered a safety glazing material. Or about 2 to 3 times stronger than Anneal Glass



# SOLAR CONTROL LOW-E GLASS

## For Energy Saving

Sunergy is a high performance pyrolytic coated glass that is highly scratch-resistant and can be bent, tempered and laminated, making it one of the favourite choices for complex architectural projects.

Together with its excellent solar control properties, low reflection and neutral appearance, Sunergy is definitely an ideal product in today's architectural world.

### SINGLE GLASS 6MM, COATING POSITION #2

### SUNERGY® PERFORMANCE DATA\*

TYPE OF GLASS	LIGHT PERFORMANCES			ENERGY PERFORMANCES					U Value (W/m2.k) (EN 673)
	VLT (%)	VLR ext (%)	VLR Int (%)	ER (%)	DET (%)	EA (%)	SF (%)	SC	
Sunergy Clear	69	9	11	9	54	37	61	0.70	4.1
Sunergy Cool	50	6	9	7	38	55	48	0.56	4.4
Sunergy Green	56	7	10	6	30	64	42	0.48	4.1
Sunergy Euro Grey	34	6	8	6	28	66	40	0.46	4.1
Sunergy Blue Green	47	7	9	6	27	67	40	0.46	4.1

\*Performance data provided by AGC Asia Pacific Pte Ltd.



# LAMINATED GLASS

## For Safety & Security

Ordinary annealed glass breaks easily. Tempered glass, while stronger, shatters under a greater impact. But laminated glass is different. If laminated glass is broken, the vinyl interlayer remains in the frame, with glass fragments adhering to the interlayer. This provides a strong barrier against forced entry and cannot be cut from one side only, which renders glasscutters useless.

### The Advantages:



Anti-Ultraviolet Ray



Heat Insulation

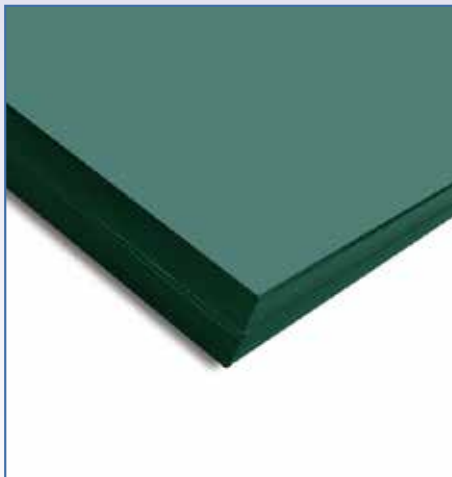


Sound Insulated



Bullet Resistant

### COLOUR OF PVB FOR LAMINATED GLASS



Light Green



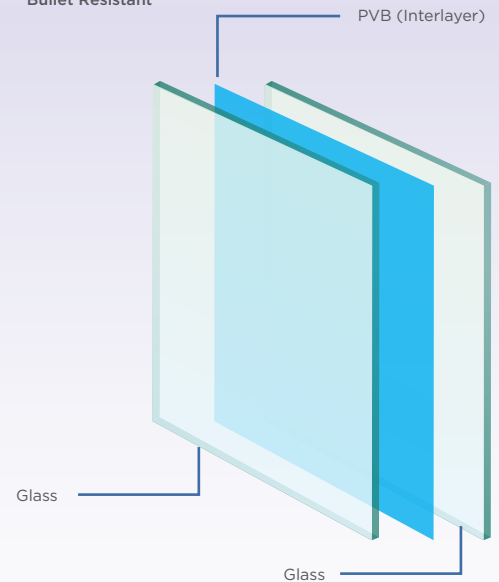
Euro Grey



White



Frosted



# ENERGY SAVING LAMINATED SAFETY GLASS

## For Energy Saving & Safety

Energy Saving Laminated Safety Glass (ESL) is a glass made with a series of new generation functional intermediate films PVB (Energy Saving Film). This glass is a kind of energy-efficient laminated safety glass with high degree of transparency and heat insulation. The intermediate films can keep the heat outdoor by absorbing a large proportion and reflecting a small proportion of a total over 90% infrared heat.

### FEATURES OF ENERGY SAFETY GLASS:



Blocked Ultraviolet Ray  
& Heat Insulation



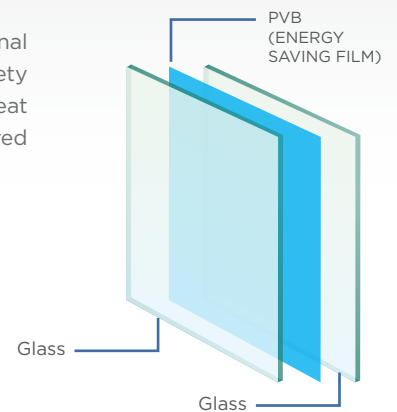
High Light  
Transmittance



Sound Insulated



Increased  
Safety Level





## Digital Printing

Tempered glass can be digital print and used as decoration glass at your kitchen. Your artwork is printed onto the glass and sealed in to guarantee and protect the image from heat, moisture, and kitchen bacteria. The tempered glass decorative possibilities are endless.

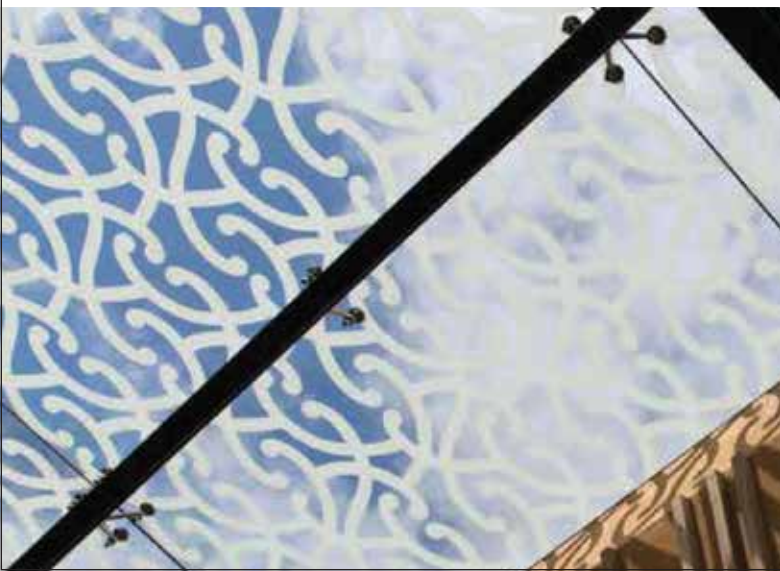


## Tempered/ Laminated Glass Application & Finishing



### Sandblasting

Sandblasting is used to obscure the view through glass but still allows light to pass through. This process is frequently used by our shopfitting customers in many high street stores. Sandblasting glass can be used on door panels, door surrounds, any windows, shower screens, for signage, commercial and domestic partitions, anywhere you wish to obscure glass and still let light through.





## Printed / Colour Glass

Printed or Colour Glass and used in many aspect as a decorative glass yet safety in used. Whether you want your glass to blend in or stand out, you'll find a wealth of options here.



## Tempered/ Laminated Glass Application & Finishing



### Glass Rail / Skylight

Laminated glass can be is best used residential and commercial glazing, skylight, glass roofs / floors, aquariums etc. It is also used at high security areas such as banks, teller, drive through windows, jewellery shops etc.





**ENERGY SAFETY GLASS SDN. BHD.** (891282-X)

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