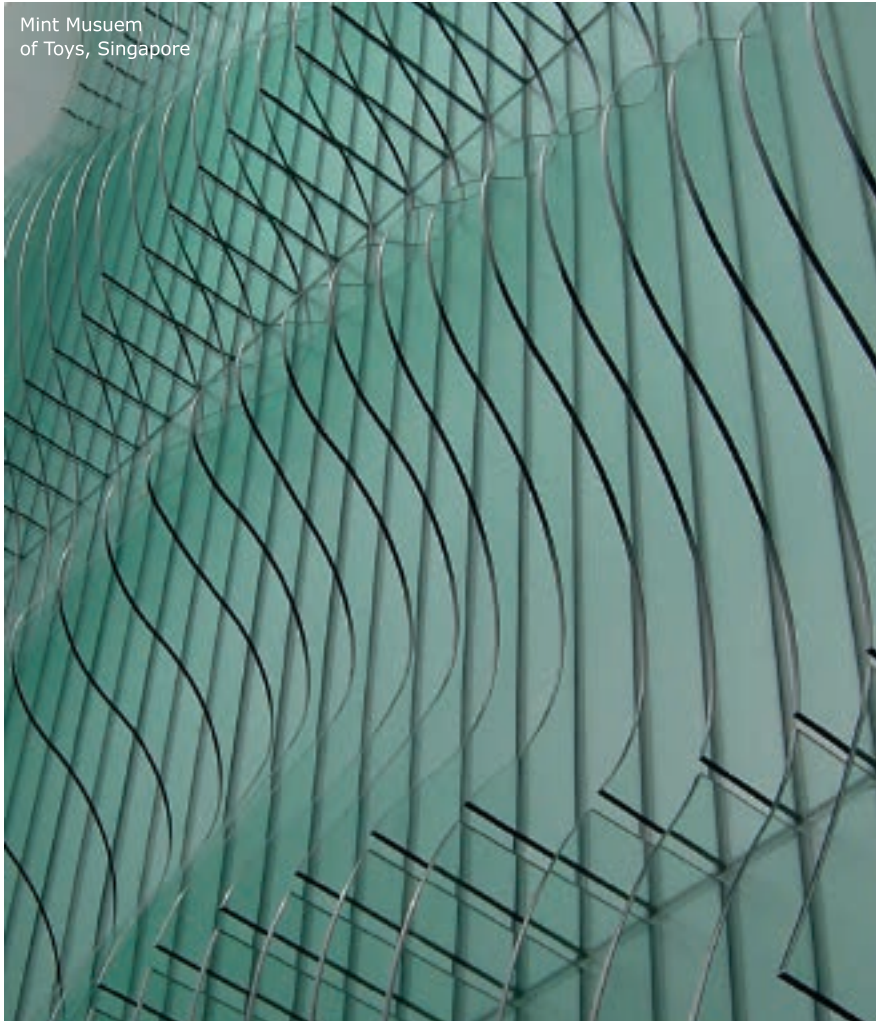


CORE

Tempered Heat-Soaked Safety Glass **SSG® DuraGlas-Q**



Mint Museum
of Toys, Singapore

PRODUCT FEATURES

LOW RISK OF SPONTANEOUS BREAKAGE

Risk of spontaneous breakage due to nickel sulphide formation is almost eliminated in SSG® DuraGlas-Q.

MECHANICAL STRENGTH

SSG® DuraGlas-Q is four to five times mechanically stronger than annealed glass of the same type and thickness. The compressive surface stresses close microscopic cracks and strengthens the glass.

SAFETY

In case of breakage, SSG® DuraGlas-Q breaks into small and granular harmless pieces, unlike the sharp and jagged shards from broken annealed glass. This makes SSG® DuraGlas-Q less injurious than ordinary annealed glass and is a classified safety glass.

THERMAL RESILIENCE

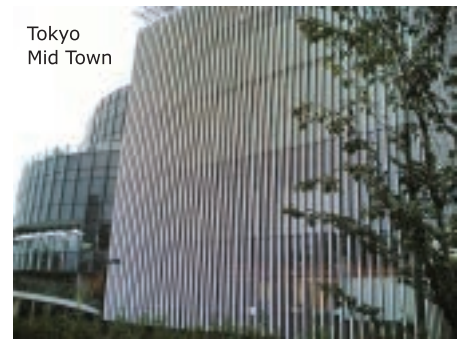
SSG® DuraGlas-Q can withstand temperatures up to 295°C. It can also endure temperature shocks of 150°C without breakage, making it approximately three times as resistant to rapid temperature changes as annealed glass.

Although all tempered glass offers a high degree of resistance to breakage, all fully tempered glass are potentially at risk of spontaneous breakage due to the formation of nickel sulphide during glass production.

When nickel-rich contaminants such as stainless steel are present in the glass melt materials, the nickel may combine with sulphur in the batch to form an impurity called nickel sulphide. These impurities are minute

in size ranging from 50 to 150 microns and cannot be totally eliminated by current technology. However, through a heat-soaking process, the risk of spontaneous breakage in tempered glass can be almost eradicated. In heat-soaking, the inversion of nickel sulphide particles to their low temperature phase is accelerated under a controlled process such that potential breakage of the glass happens in the factory rather than on-site.

Tokyo
Mid Town



SSG® DuraGlas-Q is a certified safety glass under AS/NZS 2208.

SSG® DURAGLAS-T	SSG® DURAGLAS-Q	SSG® DURAGLAS-HS
4-5 times stronger than annealed glass		2 times stronger than annealed glass
Tend to fracture into small fragments		Tend to fracture into large fragments
Can withstand up to 295°C		Can withstand up to 295°C
Safety Glass		Non-safety Glass
Risk of spontaneous breakage	Negligible risk of spontaneous breakage	Negligible risk of spontaneous breakage

CORE

Tempered Heat-Soaked Safety Glass **SSG® DuraGlas-Q**

Gallaher Tobacco Factory,
Singapore

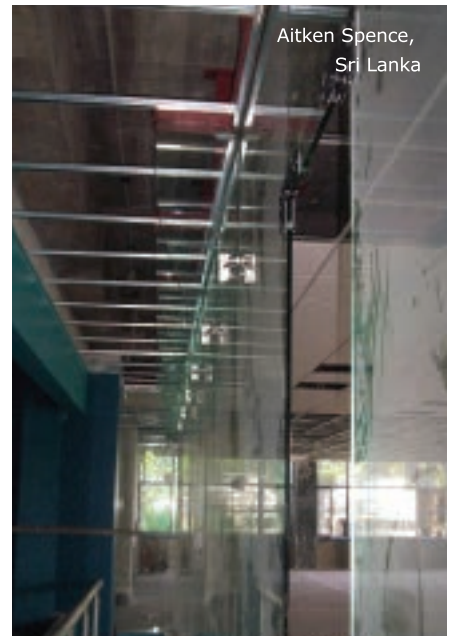


USES AND APPLICATIONS

- Balustrades
- Kitchen backsplashes
- Bathtub enclosures
- Escalator side panels
- Façades
- Floorings
- Furniture & interior decorations
- Partitions
- Shop fronts
- Showcases
- Shower glass doors / screens
- Sliding or swinging doors
- Squash court walls
- Structural glass
- Table tops
- Wall claddings
- Window glass



Ritek OLED,
Taiwan



Aitken Spence,
Sri Lanka

SPECIFICATIONS : Production Sizes

Glass Thickness (mm)	Minimum Size (W/mm x H/mm)	Maximum Size (W/mm x H/mm)
3	300 x 300	NA
4		2,438 x 4,000
5		2,438 x 4,000
6 to 12		2,500 x 5,700
15 to 19		2,500 x 5,700
22		1,800 x 5,700
25		1,600 x 5,700