



FLAT GLASS INDUSTRIES

SAFETY & SECURITY GLASS

FGI GROUP HAS A STRONG HISTORY OF SPECIALISATION IN SAFETY GLASS AND OFFERS THE MOST ADVANCED LAMINATION TECHNOLOGIES AND CAPABILITIES.



PRODUCT & PROCESS

LAMINATED GLASS...

is made up of two or more layers of glass permanently bonded together with an interlayer via a controlled, highly pressurised and industrial heating process. The lamination process results in the glass panels holding together in the event of breakage, reducing the risk of harm.

Laminated Glass is classified as a Grade A Safety Glass. There are several laminated glass types manufactured using different glass and interlay options that produce a variety of strength and security requirements.

HEAT-STRENGTHENED GLASS...

is glass that has been heat treated to induce surface compression, but not to the extent of causing it to "dice" on breaking in the manner of tempered glass. On breaking, heat-strengthened glass breaks into large pieces. Heat Strengthened glass is intermediate in strength between annealed and toughened glasses.

TOUGHENED SAFETY GLASS...

is a safety glass that has increased strength and will usually shatter in small, pieces when broken. It is used when strength, thermal resistance and safety are important considerations.



FGI HAS ADVANCED CUSTOMISED LAMINATING EQUIPMENT AND CAN PROVIDE A FULL RANGE OF ANNEALED OR TOUGHENED LAMINATED GLASS IN CLEAR, TINTED, REFLECTIVE, STARPHIRE LOW IRON, MATLUCENT ETCHED, MIRRORED, TEXTURED, COLORSMART, THERMOCOLOUR AND KLYMETSHIELD LOW E COMBINATIONS.

FGI'S TUFGLAS, TOUGHENED SAFETY GLASS...



is fabricated by heating annealed glass to over 600 C and cooling it rapidly, which locks the outer surfaces of the glass in a state of high compression, and the core or centre of the glass in compensating tension.

In the event of breakage the particles are small and are relatively harmless compared with the sharp splinters resulting from the breakage of annealed glass. The toughening process also greatly reduces the risk of thermal breakage.

FGI Tufglas is up to five times stronger than annealed glass of the same thickness and complies with AS/NZ 2208 - Safety glazing materials in buildings and AS/NZ 2080 - Safety glazing for land vehicles.

Tufglas is available in Clear, Tinted, Reflective, Starphire Low Iron, Matlucent Etched, Textured, Colorsmart, Thermocolour, Conceale, Nanoclear and Klymetshield Low E glass types.

FGI SAFETY GLASS

IS IDEAL FOR...

- Glass Balustrades
- Shower Screens
- Laminated Safety Mirrors
- Glass Doors and Windows
- Automotive/Transport
- Public Venues
- Office Buildings
- Residential, Factories
- Hospitals and Schools
- Restaurants, Sporting Facilities, and many others.

Ask any of our professional staff for help on your next project.



FGI Group has the capabilities to manufacture & supply high impact security glass in a range of protection applications:

- Bullet resistant security glass
- Intruder attack protection glass
- Cyclone proof glass
- Transportation glass
- Prison security glass

FGI Security Glass complies with Australian Standards.



Contact FGI and visit our websites to learn more about how FGI can service your glass needs.

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