



Tempered Glass

Suitable Where Safety Glazing is Required

Glaz-Tech Industries offers various solutions for architectural and safety glazing applications with tempered glass. Equipped with state-of-the-art technology, GTI's capabilities to heat strengthen or temper glass has become the ideal choice for glazers and architects that choose innovation and performance. GTI gives you the flexibility to accommodate your projects requirements giving you the option of various applications to temper including low-e, pattern, tinted and reflective glass products. Glaz-Tech Industries provides innovative solutions so that your tempering projects remain consistent with quality and efficiency.

Applications

- Doors : patio, entrance, storm and sidelites
- Windows : commercial and residential
- Tub and shower enclosures
- Skylights, paneling and handrails
- Storefronts, displays and partitions
- Table tops and fire knock-out panels

Characteristics

- Approximately five times stronger than annealed glass of equal thickness.
- Greater resistance to thermally-induced stress than heat-strengthened or annealed glass in IG units.
- Color, chemical and light characteristic of glass remain unchanged after the heat-treating process.

GTI™ GLAZ-TECH INDUSTRIES
DESIGN THROUGH GLASS

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Bent Glass

Glaz-Tech offers bent glass capabilities out of its Corporate Office in Tucson, AZ. This state-of-the-art technology allows for a specifically designed shower enclosures, doors, partitions and other glass applications. Contact your local sales rep for lead times, availability or shipping logistics.

Tempered Processing

Manufacturing Considerations

Glass thickness from 1/8" through 3/4" can be tempered. Glass thickness from 1/8" through 1/4" are commonly heat-strengthened. All processing work such as cutting, edgework and drilling must be completed prior to tempering. Glass cannot be cut or worked after the tempering process.

Edgework

GTI tempered glass can be processed in a variety of different styles, from the relatively simple ground or polished edges, to the more decorative profiled types of edgework. Other types of edgework may also be available upon request.

Holes & Notches

In order to temper glass with holes, the holes must be the same size or bigger than the glass thickness. Minimum diameter for 1/8" glass is 3/16". Contact your sales representative with questions about other laminations regarding holes, notches and cutouts.

General Info

There are some characteristics of tempered glass, such as bow and warp, roller distortion, and others that are inherent to the tempering process, and are not considered defects. GTI is always improving ways to minimize these characteristics and to keep within ASTM standards 1048 and 1036.

Technical Info

Glass Thickness Range

3mm with tolerance + 0.2 / - 0.00mm
4mm
5 - 19mm

Glass Size

Max glass size: 2,1000 x 4,200 mm (83 x 166)
Min glass size: 150 x 250mm (6 x 10)

Standard ANSI Z97.1

American National Standard for glazing materials used in building - safety performance specifications and methods of test.

ASTM C1036

Standard specification for flat glass.

ASTM

Standard specification for heat-treated flat glass.

Compliance

- Tempered float glass shall comply with ASTM C1048, Type 1, Class 1 (clear), Class 2 (tinted), Quality Q3, kind FT.
- Tempered safety glass products in the US are to comply with CPSC 16 CFR part 1201 for category II materials.

Please consult with your Glaz-Tech Sales or Customer Service Representative as each facility may differ in tempering capabilities such as minimum or maximum glass sizes, glass thickness and bent capabilities.