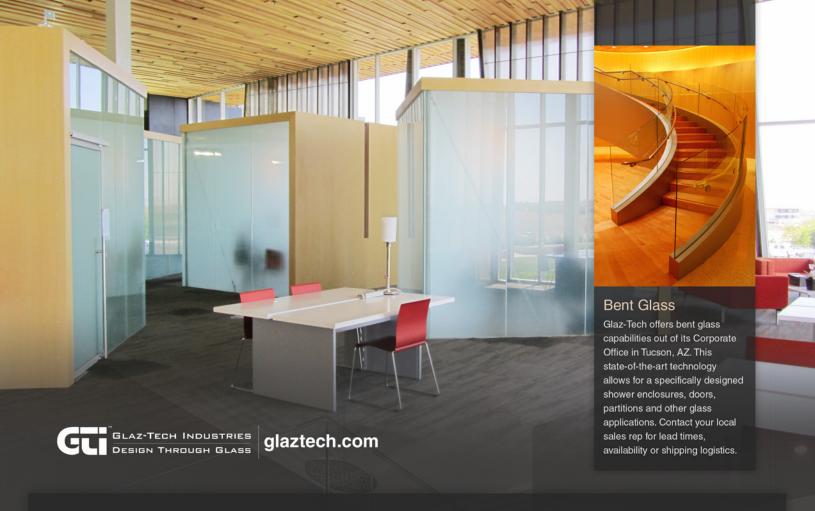


- · Windows : commercial and residential
- · Tub and shower enclosures
- · Skylights, paneling and handrails
- · Storefronts, displays and partitions
- · Table tops and fire knock-out panels
- · Greater resistance to thermally-induced stress than heat-strengthened or annealed glass in IG units.
- · Color, chemical and light characteristic of glass remain unchanged after the heat-treating process.



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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.