

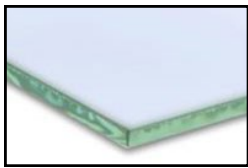
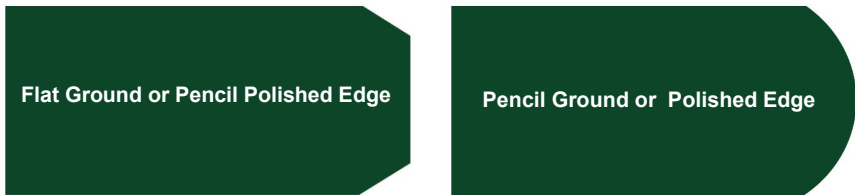
Fabrication Fact

Common Glass Edge Treatments

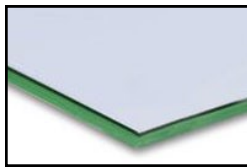
Abrisa Technologies can fabricate many edge treatments for the various glass substrates we provide. The edge treatment selected can affect functionality and performance. Edging is done for safety, cosmetics, functionality, cleanliness, improved dimensional tolerance, and to prevent chipping. Edging is generally described as a grinding process used to remove the sharp or raw edge of cut glass.

The most common edge treatments done at Abrisa Technologies are:

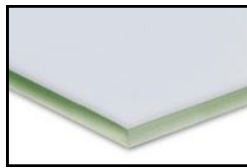
- **Cut/Seam** – this is often called a safety seam edge or swiped edge, the primary purpose is to remove the sharp edges; it is not a smooth cosmetically finished edge. A sanding belt is used to lightly sand off the sharp edge of the glass.
- **Machine Ground** – Diamond embedded grinding wheel put a satin finish on the edge
 - **Pencil** – edge has a radius similar to pencil of a “C-shape”.
 - **Flat** – a flat edge with a small 45 degree chamfer on the very top and bottom.
- **Machine Polished** – Taking a ground edge another step, polishing the edges to give the glass a nice sheen finish.
 - **Pencil** – edge has a radius similar to pencil of a “C-shape”.
 - **Flat** – a flat edge with a small 45 degree chamfer on the very top and bottom.



Cut/Seam
Soda Lime



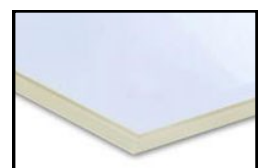
Flat Polished
Soda Lime



Pencil Polished
Soda Lime



Pencil Polished
Borofloat®



Flat Ground
Borofloat®

Minimum glass thickness for edging at Abrisa Technologies is: 0.020” (0.5mm)

** Edge photos are for sample reference only. Actual edge treatments may appear more sheen like for polished edges.*

Application Note

Common Glass Edge Treatments

Glass Fabrication



Coating Deposition



CNC Machining



Strengthening - Chemical & Heat



Screen Printing of Graphics



Abrisa Technologies, a member of HEF Photonics, is a globally recognized technology glass fabrication and optical thin film coating company with expertise in high volume manufacturing and engineering capabilities, delivering Total Solutions that provide excellent performance, fitness-for-use and economies of scale.

Our US based, state-of-the-art ISO 9001:2015 and ITAR registered facilities include Abrisa Industrial Glass in Santa Paula, CA and ZC&R Coatings for Optics in Torrance CA. These two divisions produce solutions from cut-to-order coated glass components to custom complex and ready-to-install fabricated, strengthened, optically coated, electronically enabled and branded sub-assemblies.

Our Total Solutions serve a variety of markets including Micro-Electronics, Defense and Avionics, Display, Industrial Automation, Optical Sensors, Imaging, Photonics, Medical & Dental, Life Science and more.



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