

Float Glass Applications



Float glass is the most widely used form of glass in consumer products.

Float glass applications include architectural, automotive, solar, electronics, appliance, and furniture. Stewart Engineers designs industry-leading equipment for each customer's desired applications.



Architectural Glass

StewartFloat® tin baths commonly produce glass between 2.3 mm and 25 mm thick for architectural applications. Residential architecture commonly uses 2.3 mm to 4 mm glass, while commercial buildings use 6 mm to 15 mm. Products above 15 mm are typically used by fabricators for specialty architectural applications such as hockey rinks or security windows.

Stewart Engineers AcuraCoat® online CVD systems produce value-added glass coatings such as Low E, reflective, self-cleaning, and solar control. These CVD coatings improve the energy efficiency and aesthetics of buildings.



Appliance Glass

AcuraCoat® CVD Systems produce a number of glass coatings for appliance applications. Some appliance applications include:

- Electrically-defrosting doors for commercial refrigerators and freezers
- Residential refrigerator doors
- Heat-reflective oven doors
- Microwave doors
- Washing machine lids



Solar Glass

StewartFloat® tin baths can produce ultra-low iron glass for any solar application including those requiring laser scribing.

AcuraCoat® CVD systems produce conductive glass coatings for solar applications. CVD is the only process that can produce the quantity, quality, and durability at low cost needed for this application.



Electronics Displays & Touchscreens

StewartFloat® tin baths are capable of producing 0.12 mm glass, thinner than the newest smartphone screens. Stewart Engineers can also configure tin baths for specialty glass compositions such as borosilicate and aluminosilicate.

AcuraCoat® CVD Systems produce several conductive glass coatings for unique electronic applications including touch screens. These online coatings enable electronics manufacturers to develop lower cost products.



Automotive Applications

StewartFloat® tin baths produce high quality, low-defect glass as required for automotive applications. Stewart Engineers implements special technologies to minimize optical distortion and virtually eliminate tin defects.

AcuraCoat® CVD hard coatings have been used for automotive windshield and back-lite defrosting.



Furniture

StewartFloat® tin baths easily handle furniture glass applications, which typically vary in tint and thickness between 2.3 mm and 18 mm.