

StewartFloat®

Temperature Profile Control



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The StewartFloat® Temperature Profile Control system is a fully integrated solution that continuously and automatically maintains a cross ribbon temperature profile with less than a 5°C differential resulting in improved yields, increased quality, and process stability.

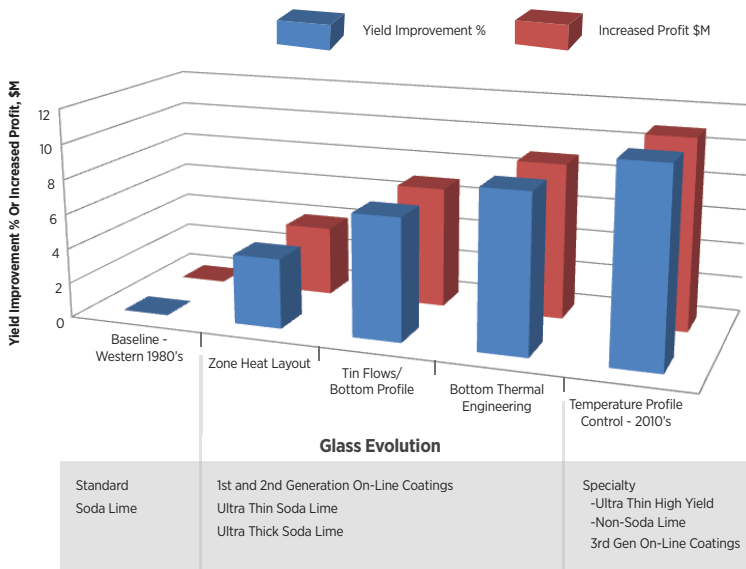
The solution

The StewartFloat® Temperature Profile Control system provides robust cross ribbon temperature profile with less than 5°C differential. This system must be installed cold as tin bath modifications are required. The hardware for the system is fully integrated into the tin bath furnace with respect to location, material selection, tin flow, controls, and instrumentation. Once commissioned, it is a hands off automatic heating control system that provides customized, repeatable, and robust control.

Western float glass manufacturers require first quality glass. The quality of float glass is dependent on several factors, many derived from the forming in the tin bath furnace. To produce excellent quality glass, one must control its cross ribbon temperature and associated viscosity.

All tin baths are uniquely designed and operated which results in the wide variance of glass product quality on the market. Stewart Engineers can tailor solutions to suit your particular needs and provide ongoing support.

Process Technology Advancements



TPC Features

- Identify defects earlier
- Decrease Lehr losses
- Lower energy consumption
- Reduce calibration error
- Creates temperature stability needed for pyrolytic coatings
- Increased yields

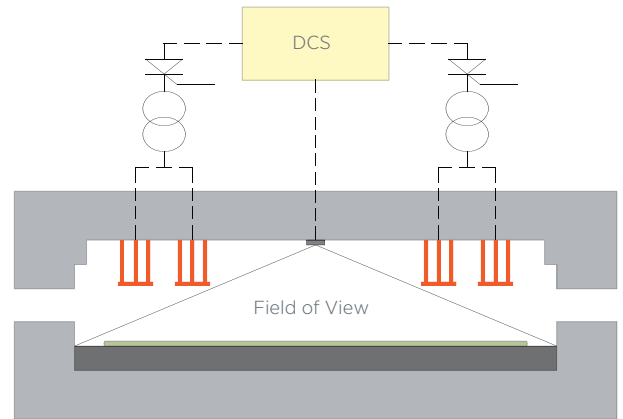


Figure 1: TPC Integrated in the Float Bath Furnace

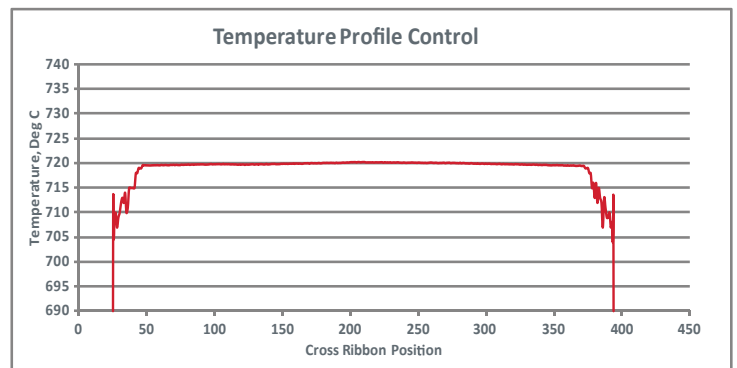
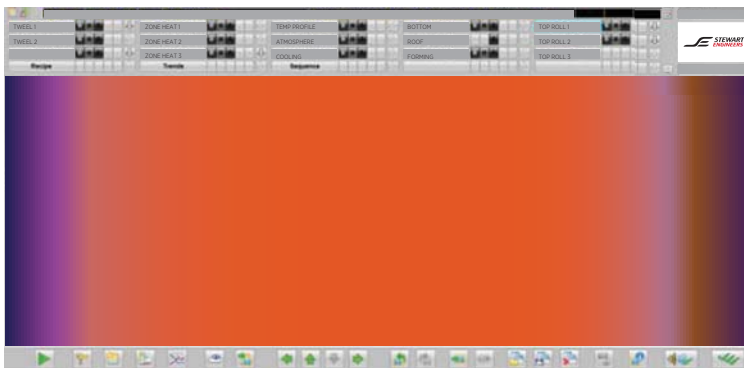


Figure 2: TPC Cross Ribbon Temperature Profile

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