



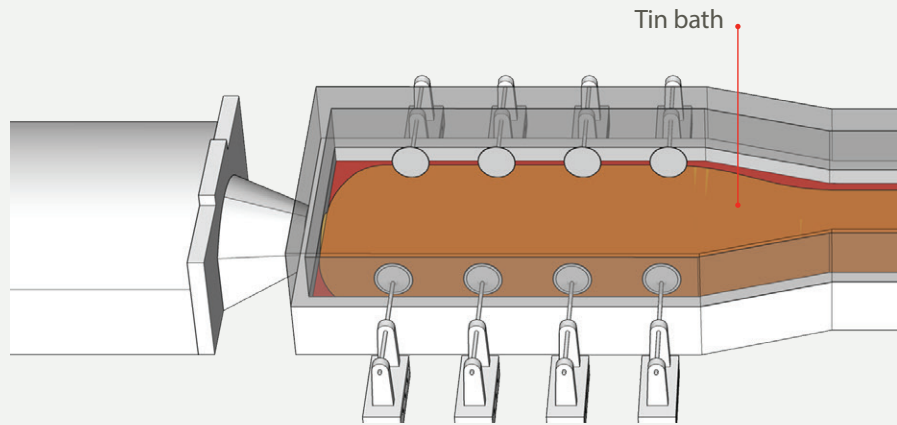
# **Solutions** for Float and Tempered Glass Manufacturing



**Pyrotek**<sup>®</sup>

# Meeting a Need

Pyrotek offers products throughout the float and tempering processes, including the tin bath area, lehr, quench zones, and cooling zones.



## Boot Seals

Pyrotek fabric boot seals provide tin bath area isolation during float glass processes. They create an airtight, temperature-resistant, and flexible seal between the tin bath side wall and the top roll machine. They are custom fabricated from durable fabrics, and the insulation barrier between layers has a 1260°C (2300°F) temperature rating.

- Accordion and cylinder boots
- Batch house transition boots
- Quick release boot (snap and hook and loop boots)



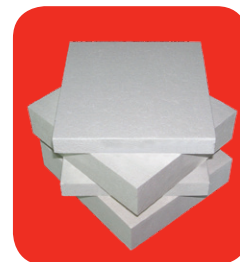
Accordion boot seals



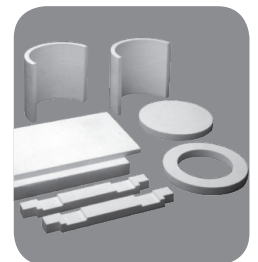
Boot seals

## Insulation Materials

- Blankets
- Boards
- Ceramic-fibre papers
- High-temperature liquid/paste rigidizers, sealants, etc.
- Machined refractory parts, including furnace roller end seals, and furnace wall panels
- Seals



Insulation boards



Machined ceramics

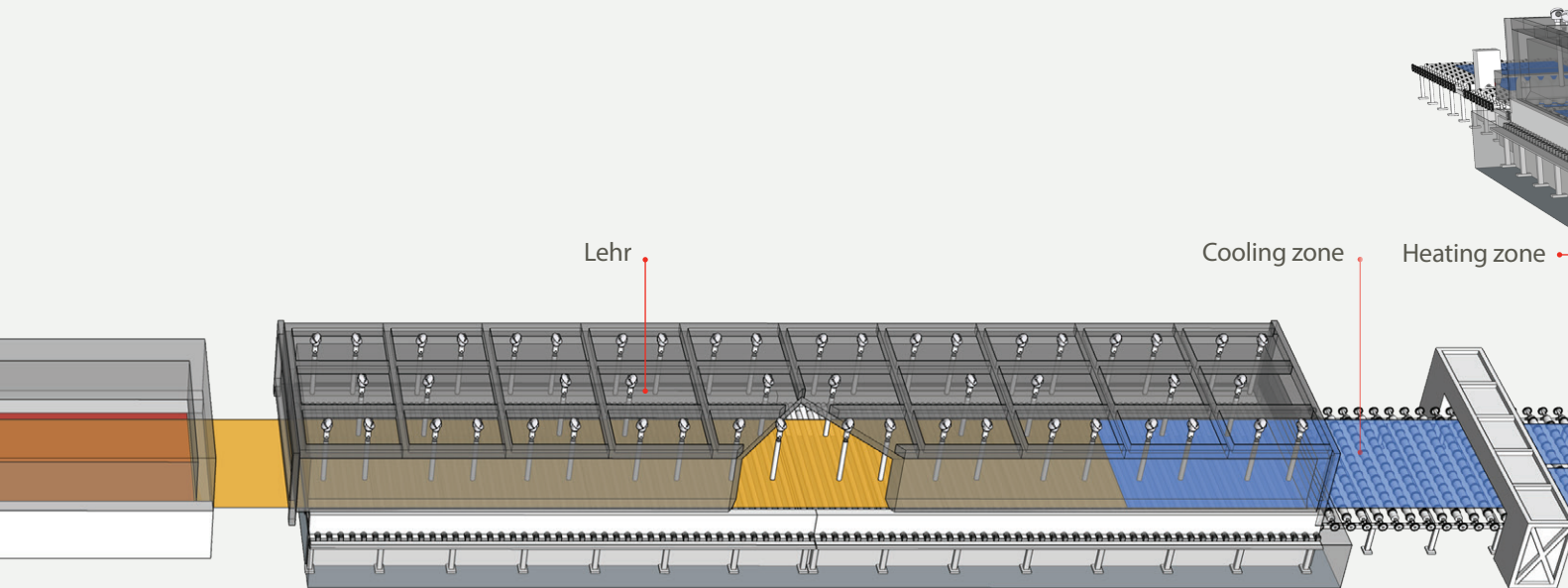


Ceramic fibre blankets



Fiberseal papers





## Machined and Cast Ceramic Parts

- Fused-silica tweels and arches
- Roller end seals



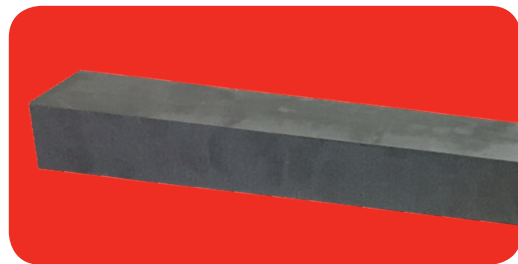
Fused silica tweels



Roller end seals

## Machined Carbon and Graphite Parts

- Perimeters
- Pushers
- Flags
- Disc seals
- Self-lubricating bearings



Perimeter carbons

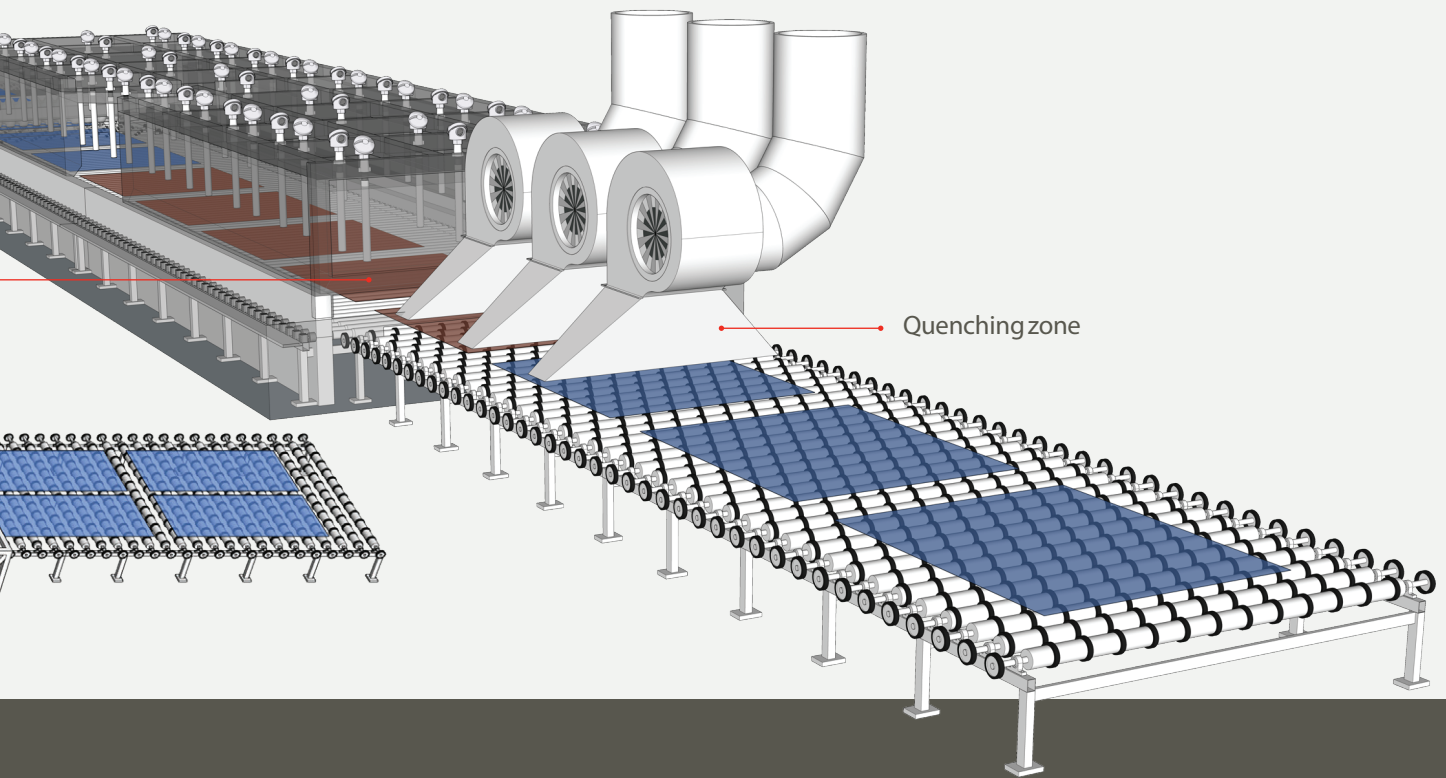
## Quench / Cooling Zone Tapes and Rope Roller Coverings

Pyrotek uses a variety of fibres and constructions to provide optimum lifetime and glass quality in tempering and cooling zones.



Ropes, tapes and tadpoles





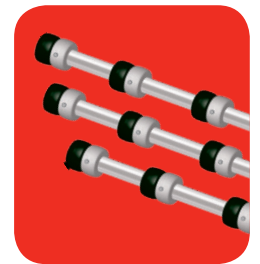
## Rollers and Donuts for Furnace, Lehr, and Quench or Cooling Zones

Pyrotek conveying rollers are available in many varieties, configurations and compositions. They are custom engineered to avoid marking the glass or adversely affecting glass properties. Our designs always strive to reduce maintenance costs and improve reliability. Complete roller assemblies, individual donut rollers, and shaft bearing assemblies are available.

- Ceramic lift-out rollers
- Ceramic rollers
- Donut rollers
- Millboard rollers
- Steel rollers



Millboard rollers



Composite rollers



Donut rollers

## Thermocouples and Accessories

Pyrotek produces a full range of thermocouples and protection tubes for optimal and custom temperature sensing.

- Available Element Types: K, N, J, E, T, R, S, B—simplex, duplex and triplex, covering temperature range 0–1820°C (32–3308°F)
- Sheaths: Sizes from 0.5–12.7 millimetres (0.02– 0.5 inch) diameter; mineral insulated
- Protection tubes
- Accessories: Plugs and jacks, transitions, bushings and flanges, compression fittings, ceramic insulators



Thermocouples



Thermocouple protection tubes



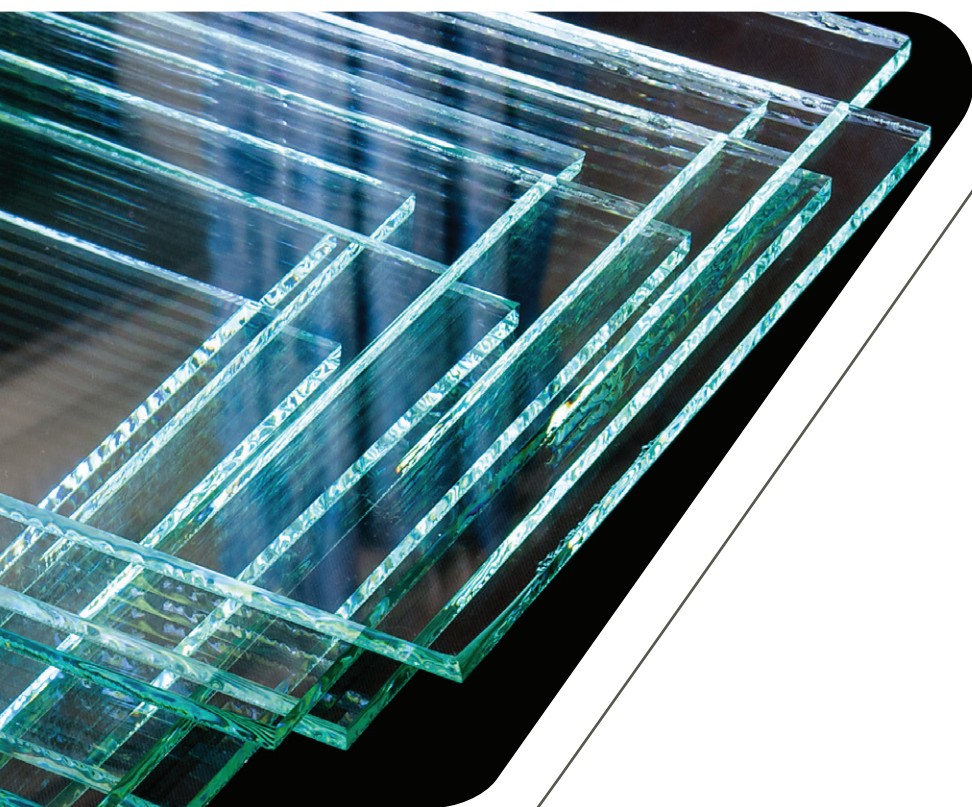


## Global Supply, Local Support

### Why Pyrotek?

Pyrotek® is a global engineering leader and innovator of performance-improving technical solutions, integrated systems, and consulting services for customers in the glass industry. Our products and solutions are in use around the world in automotive, aerospace, rail transportation, and high-tech manufacturing. We have global resources and local support in more than 35 countries and 80 locations.





**Pyrotek®**